

GENERAL PRESCRIPTION

LESSON 1. INTRODUCTION. PRESCRIPTION. SOLID MEDICINAL FORMS

Objective: To study the structure of the prescription, learn the rules and get practical skills in writing out solid medicinal forms in prescription.

To carry out practical tasks on prescriptions it is recommended to use Appendix 1.

Key questions:

1. Pharmacology as a science and the basis of therapy. Main development milestones of modern pharmacology. Sections of Pharmacology.
2. The concept of medicinal substance, medicinal agent (medicinal drug, drug), medicinal form.
3. The concept of the pharmacological action and types of the action of drugs.
4. The sources of obtaining drugs.
5. International and national pharmacopeia, its content and purpose.
6. Pharmacy. Rules of drug storage and dispensing.
7. Prescription and its structure. Prescription forms. General rules for writing out a prescription. State regulation of writing out and dispensing drugs.
8. Name of medicinal products (international non-proprietary name - INN, trade name).
9. Peculiarities of writing out narcotic, poisonous and potent substances in prescription.
10. Drugs under control. Drugs prohibited for prescribing.
11. Solid medicinal forms: tablets, dragee (pills), powders, capsules. Their characteristics, advantages and disadvantages. Rules of prescribing.

Write out prescriptions for:

1. 20 tablets of Sertraline 0.1 g. 1 tablet orally once a day.
2. 20 coated tablets of Ticlopidine 0.25 g. 1 tablet orally once a day during or immediately after a meal.
3. 10 chewable tablets of Montelukast 0.0005 g. For the children 6-15 years old, 1 chewable tablet once a day in the evening.
4. 10 tablets of Nystatin 100000 IU. For intravaginal use 1 tablet 4 times a day.
5. 20 tablets of Verapamil retard 240 mg each. Take 1 tablet orally once a day.
6. 10 tablets of «Co-trimoxazolium». Combined drug. 1 tablet orally 2 times a day.
7. 50 capsules of Zidovudine 0.25 g. 1 capsule orally 6 times a day.
8. 20 dragees of Chlorpromazine 0.25 g. 1 dragee orally 1 time a day.
9. 5 powders of Codeine 0.015 g. 1 powder orally twice a day.
10. 10 powders of Didanosine 0.25 g in sachets to prepare solution for internal use. Accept inside twice a day one sachet powder after dissolution in a glass of boiled water.
11. Powder of Azithromycin 0.46 g in the bottle to prepare suspension 100 mg / 5 ml. Dissolve the contents of the bottle in boiled water. Take orally 5 ml once a day 1 hour before meals or 2 hours after a meal, for 3 days.
12. 50 mg of Alteplase powder in the bottle. Dissolve the content of the bottle in 50 ml of saline. First 15 ml introduce intravenously streamly, then intravenous drip.
13. 5 sachets containing 100 mg of Nimesulide granules. Take 100 mg orally (1 sachet) 2 times a day after dissolving the granules in half a glass of water.
14. 50 caramels of Dequalinium chloride 0.015 g. Take one caramel every 4 hours (kept in the mouth to complete resorption).

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LESSON 2. LIQUID MEDICINAL FORMS

Objective: To learn the rules and get practical skills in writing out liquid medicinal forms in prescription.

Key questions:

1. General characteristics and rules of writing out liquid medicinal forms. Dosage.
2. Solutions for external and internal use. Solvents. Officinal solutions. Suspensions.
3. Liquid medicinal forms made from plant medicinal material: infusions, broths, teas, galenic (tinctures, extracts) and neogalenic drugs, mucus, emulsions, liniments.
4. Mixtures.

Write out prescriptions for:

1. 25 ml of a 0.05 % solution of Chlorhexidinum. To rinse the oral cavity 3 times a day.
2. 10 ml eye drops 0.3 % solution of Gentamycin. By 1 drop into both eyes 3 times a day.
3. 10 ml 0.0009 % oil solution of Alfacalcidol. By 3 drops orally once a day in the morning.
4. 10 ml of 2 % alcoholic solution of Mentholum in a vial. Rub into the affected joint area 2 times a day.
5. 180 ml solution of Potassium iodide, for the patient to get 0.45 g of potassium iodide per one dose. 1 table spoonful orally 3 times a day.
6. 50 ml 0.08 % syrup of Ondansetron. Orally 2.5 ml once a day.
7. 240 ml 1 % suspension of Nevirapine. Orally 20 ml once a day.
8. 200 ml emulsion from 30 ml Oleum Ricini. Orally for 3 doses.
9. 200 ml of decoction from 20 g of the root of the Polygala (Radices Polygalae). Apply orally 1 tablespoon 4 times a day.
10. 25 ml tincture of Echinopanacis. 35 drops orally 2-3 times before meals.
11. 15 ml of Adonisidum. 15 drops orally 2-3 times a day.
12. The mixture containing 180.0 ml infusion from 0.45 g herba Thermopsidis and 0.2 g Codeini phosphas. 1 table spoonful orally 3 times a day.
13. 100 ml mixture containing 2.0 g of Chloralum hydratum and equal amounts of Amylum and distilled water. For 2 enemas.
14. 50 ml of 70 % Spiritus aethylicus. For processing of the surgical field.

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LESSON 3. MEDICINAL FORMS FOR INJECTIONS. SOFT MEDICINAL FORMS

Objective: To learn the rules and get practical skills in writing out prescription for soft medicinal forms and medicinal forms for injections.

Key questions:

1. The base for preparation of soft medicinal forms.
2. Ointments, pastes. Rules of prescribing them.
3. Dosed soft medicinal forms — suppositories. Types of suppositories. Rules of prescribing them.
4. Basic medicinal forms for injections.
5. General characteristics and requirements to medicinal forms for injections.
6. Rules of writing out injection forms manufactured at the plant and made at the pharmacy.

Write out prescriptions for:

1. 20.0 g 1 % ointment of Dequalinium chloride. Assign to handle the corners of the mouth and lips (for fungal infections).
2. 30.0 g 3 % ointment of Tetracycline. Apply to the affected skin area 2 times a day.
3. 5.0 g 1 % eye ointment of Pilocarpine. Apply in the conjunctival sac every 4 hours.
4. 30.0 g (30 000 IU/1.0 g) ointment of Amphoterecin B. Apply a thin layer to the affected skin area 1-2 times a day.
5. 30.0 g 2.5 % liniment of Griseofulvin. Apply a thin layer to the affected skin area at a daily dose of not more than 30 g.
6. 25.0 g of a 25 % Zinci oxydum paste. Apply to the affected area of the skin 2 times a day.
7. 10.0 g paste based on vaseline and lanoline (equally) containing 5 % Benzocaine. Apply to the affected skin area.
8. 50.0 g of 5 % Ibuprofenum cream. Apply to the affected area of the skin 3 times a day.
9. 50.0 g of 1 % gel of Indometacinum. Rub into the skin in the affected area 2 times a day.
10. 12 rectal suppositories containing 0.1 g Tramadol. 1 suppository into the rectum 2 times a day.
11. 20 vaginal suppositories containing 0.5 g Metronidazolium. 1 suppository into the vagina at bedtime.
12. 20 rectal suppositories of Ultraproct. Combined drug. 1 suppository into the rectum 2 times a day.
13. 10 ampules containing 10 ml 1 % solution of Ciprofloxacinum. 10 ml intravenously 2 times a day.
14. 10 ampules containing 1 ml 2.5 % solution of Progesterone in oil. 1 ml intramuscularly once a day.
15. 5 bottles containing 5 ml of a 3 % solution of Emoxipinum. Intravenously 5 ml, 2 times a day.
16. 10 ampules containing 0.1 g Doxycycline. The content of the ampule to be dissolved in 100 ml of isotonic solution NaCl 1 mg/ml. Intravenously drip-feed.
17. 10 vials containing 0.5 g of Cefotaxim powder. Dissolve the contents of the vial in 5 ml of water for injection. Inject slowly intravenously 0.5 g 2 times a day.

18. 6 bottles containing 1 200 000 IU Benzylpenicillin-Benzatin. The content of the bottle to be dissolved in 2-3 ml water for injections. 1 200 000 IU intramuscularly once per 2 weeks.
19. 5 vials containing 100 ml of a 5 % solution of Acidum aminocapronicum. The contents of the vial administered by slow intravenous drip to stop the bleeding.
20. 200 ml sterile 0.5 % solution of Procaine in physiological sodium chloride solution for surgical cabinet.
21. 6 ampoules containing 1 ml (5 IU) of Oxytocinum. The contents of the ampoule are administered intramuscularly to stimulate labor.
22. 10 ampoules containing 2 ml of a solution of Tramadol (50 mg/ml). Introduce intravenously in 20 ml of isotonic sodium chloride solution.
23. 15 ml of a metered aerosol containing 300 doses of Ipratropium bromide. In one dose - 20 mcg of ipratropium bromide. Inhalation of 2-4 breaths (2-4 doses of aerosol) 3 times a day.
24. 15 ml of «Berodual» aerosol. Inhalation 1-2 doses of aerosol 3 times a day.
25. 10 ml sublingual spray containing 200 doses of Nitroglycerinum. One dose contains 0.4 mg of nitroglycerin. When an attack of angina pectoris, spraying in a sitting position under the tongue for 1-2 doses (mouth must be closed immediately after each dose). No more than 3 doses within 15 minutes! Spray should not be inhaled!

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