Educational progam for outpatient therapy for 4th year foreign students

Lesson 1: Organization of outpatient medical care in the Republic of Belarus. Organization of dispanserization.

Class times - 8.00-13.00

By the end of the lesson, students should know:

- 1. Organization of ambulatory care in the Republic of Belarus.
- 2. The rights and duties of the district general practitioner.
- 3. Therapeutic and diagnostic work of the district general practitioner on an outpatient basis.
- 4. Organization of medical care at home.
- 5. Medical rehabilitation in work of the district general practitioner.
- 6. The main sections of the preventive work of the district general practitioner.
- 7. Basic medical documents of approved forms.
- 8. Types of temporary disability.
- 9. Documents certifying temporary disability (sheet of disability, a certificate of disability) and their functions.
- 10. The rules governing the granting and renewal of sheet of disability and certificate of disability.
- 11. The composition and functions of the medical advisory committee (MAC).

- 1. Identify the indications for referral to the laboratory and instrumental studies, consultation of a specialist, referring to a hospital and sanatorium treatment.
- 2. Understand the medical records.
- 3. To make out prescriptions for drugs to various categories of patients.
- 4. Calculate BMI, to assess the risk for cardiovascular SCORE
- 5. To issue a document certifying the temporary disability.
- 6. Extend disability sheet or a certificate.

Time	Theme, method	Content	Materials
8.00-9.30	Students survey	Analysis of material of theme, familiarization with the regulation documents	Basic forms of medical documents (ambulatory card, health certificate, recipes), regulation documents sheet of disability, certificate of disability
9.30-9.45	Break		
9.45-10.00	Introduction to structural units of the polyclinic		
10.00-11.15	Independent work of students	Work in a doctor's office: calculation of BMI, evaluate risk factors in 5 patients	communications with patients,

11.15-11.30	Break		
11.30-12.45	Independent work of students	Prescribing of recipes,	Training recipes
12.45-13.00	Securing of material "What's new I've learned today"		

Independent work of students (IWS): dispanserization of population, the concept of medical rehabilitation expert board (MREB)

After IWS student should know:

- 1. Organization of the dispanserization, analysis of its quality and efficiency.
- 2. Identify the group of dispanserization.
- 3. Persistent disability, group of disability.
- 4. Structure and functions of the medical rehabilitation expert board (MREB).
- 5. Indications and order of referral to the MREB.

Lesson 2. Respiratory diseases. Acute respiratory infections, acute tonsillitis, acute bronchitis, pneumonia: outpatient aspects of diagnosis and treatment.

Class times - 8.00-13.00

By the end of the lesson, students should know:

- 1. Etiology of ARI, acute tonsillitis, acute bronchitis, pneumonia.
- 2. Features anamnesis and examination of patients with acute respiratory infections, acute tonsillitis, acute bronchitis, pneumonia.
- 3. The clinical picture of acute respiratory infections, acute tonsillitis, acute bronchitis, pneumonia.
- 4. Plan for a patient examination with acute respiratory diseases.
- 5. Indications for hospitalization of patients with acute respiratory infections, acute tonsillitis, acute bronchitis, pneumonia.
- 6. Treatment of acute respiratory infections, acute tonsillitis, acute bronchitis, pneumonia.
- 7. Complications of ARI, acute tonsillitis, acute bronchitis, pneumonia.
- 8. Examination of temporary disability in ARI, acute tonsillitis, acute bronchitis, pneumonia.
- 9. Dispanserization and rehabilitation of patients with acute respiratory diseases.

- 1. To collect anamnesis and carry out inspection of patients with acute respiratory diseases.
- 2. Identify the need for hospitalization.
- 3. To formulate a diagnosis.
- 4. Determine the tactics of treatment in an outpatient setting.
- 5. Analyze the data of laboratory and instrumental methods of examination.
- 6. To appoint treatment to the patient in accordance with the diagnosis.
- 7. Carry out medical rehabilitation, dispanserization and preventive work.

Time	Theme, method	Content	Materials
8.00-9.30	Students survey	Analysis of material of theme,	Regulation documents
		familiarization with the	

		regulation documents	
9.30-9.45	Break		
9.45-11.15	Independent work of students	Work in a doctor's office: - examination of the oropharynx; - palpation of lymphatic nodes - auscultation of the thorax	Participation in the examination patients, prescribing of recipes and certificates
11.15-11.30	Break		
11.30-12.00	Discussion, skills demonstration	Clinical analysis of patients: taking of throat swab	Patient, ambulatory card
12.00-12.30	Group work. Brainstorm	Solving situational problems from case report	Situational problems
12.30-13.00	Securing of material "W	That's new I've learned today"	

Lesson 3. Diseases of the cardiovascular system. Primary and secondary arterial hypertension. Somatoform dysfunction of the autonomic nervous system: outpatient aspects of diagnosis and treatment. Emergency aid in hypertensive crisis in an outpatient setting

Class times - 8.00-13.00

By the end of the lesson, students should know:

- 1. Definition and classification of arterial hypertension.
- 2. Plan of inspection of patients with high blood pressure in the outpatient setting.
- 3. Principles of the treatment of arterial hypertension.
- 4. Indications for hospitalization of patients with arterial hypertension.
- 5. The classification of hypertensive crises.
- 6. Tactics provide emergency medical care for hypertensive crises in the outpatient setting.
- 7. Dispanserization and prevention of arterial hypertension.
- 8. Classification, principles of diagnosis and treatment of somatoform dysfunction of the autonomic nervous system.

- 1. Measure the blood pressure.
- 2. Assign the required inspection plan for patients with high blood pressure.
- 3. Interpret laboratory and instrumental data.
- 4. Assign a treatment for patients with arterial hypertension.
- 5. Urgent care in hypertensive crises.
- 6. To conduct dispanserization.
- 7. To recommend methods of prevention.

Time	Theme, method	Content	Materials

8.00-9.30	Students survey	Analysis of material of theme, familiarization with the regulation documents	Regulation documents
9.30-9.45	Break		
9.45-11.15	Independent work of students	Work in a doctor's office: - assessment of risk factors in hypertension; - measurement of blood pressure (3 patients)	Participation in the examination patients, prescribing of recipes
11.15-11.30	Break		
11.30-12.15	Discussion, demonstration of practical skills	Clinical analysis of patient	Patient, ambulatory card, visiting of manipulation room, familiarity with the first-aid kit
12.15-12.45	Brainstorm	Establishing a defined of risk factors by SCORE scale, GFR calculation by Kokroft-Gault's formula	Situational problems, ambulatory card
12.45-13.00	Securing of materia	al "What's new I've learned today"	

Lesson 4. Coronary heart disease: aspects of outpatient diagnosis of various forms of it. Emergency aid in anginal attack and acute coronary syndrome in outpatient settings.

Class times - 8.00-13.00

By the end of the lesson, students should know:

- 1. Classification and risk factors for coronary heart disease.
- 2. Plan of inspection and diagnosis of angina.
- 3. Indications for hospitalization.
- 4. Treatment of patients with angina pectoris in an outpatient setting.
- 5. Indications to the referring on the MREB.
- 6. Dispensary observation of patients with angina.
- 7. The algorithm providing emergency care when anginal attack and acute coronary syndrome in the outpatient setting.

- 1. To collect complaints and anamnesis in patients with coronary heart disease.
- 2. To prepare the patient's plan of survey with coronary heart disease.
- 3. Determine the tactics of treating a patient with coronary artery disease.
- 4. Provide emergency medical aid in anginal attacks and acute coronary syndrome.

- 5. Interpreting the data of laboratory and instrumental studies.
- 6. Carry out personal preventive measures.

Time	Theme, method	Content	Materials
8.00-9.30	Students survey	Analysis of material of theme, familiarization with the regulation documents	Regulation documents
9.30-9.45		Break	
9.45-11.15	Independent work of students	Work in a doctor's office: - assessment of risk factors of cardiovascular diseases (3 patients)	Directly involved in communications with patients, prescribing recipes
11.15-11.30		Break	
11.30-12.00	Discussion, demonstration of practical skills	Clinical analysis of patient	Patient, ambulatory card
12.00-12.45	Brainstorm	Solving situational problems from case report	Situational problems (2)
12.45-13.00	Securing of materia	al "What's new I've learned today"	

Lesson 5. Diseases of the digestive system. Functional dyspepsia, chronic gastritis, peptic ulcer and duodenal ulcer: outpatient aspects of diagnosis and treatment. Medical tactics and emergency medical care for suspected gastrointestinal bleeding in an outpatient setting

Class times - 8.00-13.00

By the end of the lesson, students should know:

- 1. Features of the history collection and examination of patients with diseases of the digestive system.
- 2. Methods of laboratory and instrumental examination and interpretation.
- 3. Clinic, diagnosis and treatment of functional dyspepsia, chronic gastritis, gastric and duodenal ulcers.
- 4. Clinic of gastrointestinal bleeding.
- 5. Dispanserization of patients with chronic gastritis, gastric and duodenal ulcers.
- 6. The prevention of diseases of the digestive system.

- 1. To collect complaints and anamnesis.
- 2. Inspect the abdomen (palpation, percussion, auscultation).
- 3. To prepare a survey plan.

4. Tactics emergency treatment in case of gastrointestinal bleeding.

Time	Theme, method	Content	Materials
8.00-9.30	Students survey	Analysis of material of theme, familiarization with the regulation documents	Regulation documents
9.30-9.45	Break		
9.45-11.15	Independent work of students	Work in a doctor's office: - Collection of complaints and anamnesis - Examination of the tongue - Examination of the abdomen (2 persons)	Directly involved in communications with patients, prescribing recipes, sheet of disability
11.15-11.30		Break	
11.30-12.00	Demonstration of practical skills	Clinical analysis of patient	Patient in day-off stationer
12.00-12.45	Brainstorm	Solving situational problems from case report (system SOCRATES)	Situational problems (2)
12.45-13.00	Securing of materia	l "What's new I've learned today"	

LESSON 6. Chronic cholecystitis, biliary functional disorder races, chronic pancreatitis: outpatient aspects of diagnosis and treatment. Emergency aid in hepatic colic in an outpatient setting

Class times - 8.00-13.00

By the end of the lesson, students should know:

- 1. Anamnesis taking and examination of patients with diseases of the biliary system.
- 2. Methods of laboratory and instrumental examination and interpretation.
- 3. Clinic, diagnosis and treatment of chronic cholecystitis, biliary functional disorders, chronic pancreatitis.
- 4. Clinic of biliary colic.
- 5. Dispanserization of patients with chronic cholecystitis, chronic pancreatitis.
- 6. The prevention of diseases of the biliary system.

- 1. To collect complaints and anamnesis.
- 2. Carry out inspection of patients with diseases of the biliary system.
- 3. To prepare a survey plan.
- 4. Tactics emergency treatment in hepatic colic in an outpatient setting.

Time	Theme, method	Content	Materials
8.00-9.30	Students survey	Analysis of material of theme, familiarization with the regulation documents	Regulation documents
9.30-9.45	Break		
9.45-11.15	Independent work of students	Work in a doctor's office: - Collection of complaints and anamnesis; - Examination of the abdomen	Directly involved in communications with patients, prescribing of recipes and sheet of disability
11.15-11.30	Break		
11.30-12.00	Summary questions	Summary	Writing
12.00-12.30	Demonstration of skills	Examination of patients	Patient in day-care department
12.30-13.00	Conclusions		

List of preparations for discharge on resipes

Lesson 2. Respiratory diseases. Acute respiratory infections, acute tonsillitis, acute bronchitis, pneumonia: outpatient aspects of diagnosis and treatment

```
Ibuprofen - 0.2/0.1;
Paracetamol - 0.1/0.2;
Meloxicam -0.0075/0.015;
Nimesulide - 0.1;
Analgin 50% - 2.0/Papaverine 2% -2.0/diphenhydramine 1% - 1.0;
Tolperisone -0.05;
Arbidol - 0.05/0.1;
Groprinosin - 0.5;
Oseltamivir - 0.75;
Amoxicillin - 0.25/0.5;
Azithromycin - 0.25/0.5;
Cefotaxime - 1.0/0.5;
Ceftriaxone - 1.0/0.5;
Cephalexin - 0.5;
Levofloxacin - 0.25;
Midecamycin - 0.4;
Amoxicillin/clavulanic acid - 0.25 + 0.125/0.5 + 0.125;
Bromhexinum - 0.004/0.008;
```

```
Ambroxol - 0.03;
Acetylcysteine - 0.1/0.2;
Acetylsalicylic acid - 0.325/0.5;
```

Lesson 3: Diseases of the cardiovascular system. Primary and secondary arterial hypertension. Ambulance for hypertensive crisis in an outpatient setting

```
Furosemide - 0.04;
Veroshpiron - 0.05 / 0.025;
Torasemide - 0.005 / 0.01;
Indapamide - 0.0025;
Hydrochlorothiazide - 0.25/0.0125;
Lisinopril - 0.005 / 0.01/0.02:
Perindopril - 0.005/0.01;
Ramipril - 0.0025/0.005;
Captopril - 0.025/0.05;
Enalapril + Hydrochlorothiazide - 0.01 +0.0125/0.01+ 0.025;
Nifedipine - 0.01;
Amlodipine - 0.005/0.01;
Amlodipine + Lisinopril - 0.005 + 0.01;
Perindopril+Amlodipine - 0.005 + 0.01/0.01 + 0.005/0.01 + 0.01/0.005 + 0.005;
Verapamil - 0.04/0.08;
Diltiazem - 0.06/0.09/0.120/0.18;
Losartan - 0.05;
Losartan + hydrochlorothiazide - 0.05 + 0.0125;
Valsartan - 0.08:
Valsartan + Hydrochlorothiazide - 0.08 + 0.025;
Metoprolol - 0.025/0.05;
Bisoprolol - 0.005/0.01;
Atenolol - 0,025; 0.05
Betaxolol - 0.005 / 0.001;
Nebivolol - 0.005:
Moxonidine - 0.0002/0.0004:
Analgin 50% - 2.0/Papaverine 2% -2.0/Dibazol 0.5% - 2.0;
Magnesium sulfate - 25% - 5.0.
```

Lesson 4. Coronary heart disease: aspects of outpatient diagnosis of various forms. Ambulance with anginal attack and acute coronary syndrome in outpatient settings

```
Aspirin - 0.325/0.5;
Clopidogrel - 0,075;
Dipyridamole - 0.025/0.075
Isosorbide mononitrate - 0.02/0.04;
Isosorbide dinitrate - 0.02;
Atorvastatin - 0.01/0.02;
Simvastatin - 0.01/0.02/0.04;
```

```
Rosuvastatin - 0.005/0.01/0.02;
Nitroglycerin - 0.0005;
Molsidomine - 0.002/0.004:
Mildronate - 0.5;
Trimetazidine - 0,035;
Furosemide - 0.04;
Veroshpiron - 0.05/0.025:
Torasemide - 0.005/0.01;
Indapamide - 0.0025;
Hydrochlorothiazide - 0.25/0.0125;
Lisinopril - 0.005/0.01/0.02;
Perindopril - 0.005/0.01;
Ramipril - 0.0025/0.005;
Captopril - 0.025/0.05;
Enalapril + Hydrochlorothiazide - 0.01 + 0.025;
Nifedipine - 0.01;
Amlodipine - 0.005/0.01;
Amlodipine + Lisinopril - 0.005 + 0.01;
Perindopril+Amlodipine -0.005 + 0.01/0.01 + 0.005/0.01 + 0.01/0.005 + 0.005;
Verapamil - 0.04/0.08;
Diltiazem - 0.06/0.09/0.120/0.18;
Losartan - 0.05;
Losartan + hydrochlorothiazide - 0.05 + 0.0125;
Valsartan - 0.08;
Valsartan + Hydrochlorothiazide - 0.0125 + 0.08/0.08 + 0.025;
Metoprolol - 0.025/0.05;
Bisoprolol - 0.005/0.01;
Atenolol - 0,025;
Betaxolol - 0.005/0.001;
Nebivolol - 0,005;
Moxonidine - 0.0002/0.0004;
Analgin 50% - 2.0/Papaverine 2% -2.0/Dibazol 0.5% - 2.0;
Magnesium sulfate 25% - 5.0;
Morphine hydrochloride 1% - 1.0;
```

Lesson 5. Diseases of the digestive system. Functional dyspepsia, chronic gastritis, peptic ulcer and duodenal ulcer: outpatient aspects of diagnosis and treatment. Medical tactics and emergency medical care for suspected gastrointestinal bleeding in an outpatient setting

Lesson 6. Chronic cholecystitis, biliary functional disorders, chronic pancreatitis: outpatient aspects of diagnosis and treatment. Ambulance in hepatic colic in an outpatient setting

```
Plantaglucid - 50.0 (fl.)
Omeprazole - 0.02;
Lansoprazole - 0.03;
Gefal - 5ml;
```

```
Almagel - 50ml;
De-nol - 0.12;
Ranitidine - 0.15/0.3;
Drotaverinum - 0.04;
Pancreatin - 30 U;
Amoxicillin - 0.5 + Clarithromycin - Omeprazole 0.5 + - 0.02;
Metoclopramide - 0.01;
Aminocaproic acid - 5% - 100/200;
Vikasol 1% - 1.0.
```

Detailing pain for **SOCRATES** system:

```
S - Site, localization;
```

- O Onset, (acute, progressive);
- C Character;
- R Radiation, Irradiation;
- A Association, What is the reason;
- T Timing, duration;
- E Exacerbation, The enhanced / simplified;
- S Severity, intensity.

List of preparations for discharge on prescription forms

```
Ibuprofen - 0.2/0.1;
Paracetamol - 0.1/0.2;
Meloxicam - 0.0075/0.015;
Nimesulide - 0.1;
Analgin 50% - 2.0/papaverine - 2% 2.0/diphenhydramine 1% - 1.0;
Tolperisone - 0.05;
Arbidol - 0.05/0.1;
Groprinosin - 0.5;
Oseltamivir - 0.75;
Amoxicillin - 0.25/0.5;
Azithromycin - 0.25/0.5;
Cefotaxime - 1.0/0.5;
Ceftriaxone - 1.0/0.5;
Cephalexin - 0.5;
Levofloxacin - 0.25;
Midecamycin - 0.4;
Amoxicillin/clavulanic acid - 0.25 + 0.125/0.5 + 0.125;
Bromhexinum - 0.004/0.008;
Ambroxol - 0.03;
Acetylcysteine - 0.1/0.2;
```

```
Aspirin - 0.325/0.5;
Clopidogrel - 0,075;
Dipyridamole - 0.025/0.075
Isosorbide mononitrate - 0.02/0.04;
Isosorbide dinitrate - 0.02;
Atorvastatin - 0.01/0.02;
Simvastatin - 0.01/0.02/0.04:
Rosuvastatin - 0.005/0.01/0.02;
Nitroglycerin - 0.0005;
Molsidomine - 0.002/0.004;
Mildronat - 0.5;
Trimetazidine - 0,035;
Furosemide - 0.04;
Veroshpiron - 0.05/0,025;
Torasemide - 0.005/0.01;
Indapamide - 0.0025;
Hydrochlorothiazide - 0.25/0.0125;
Lisinopril - 0.005/0.01/0.02;
Perindopril - 0.005/0.01;
Ramipril - 0.0025/0.005;
Captopril - 0.025/0.05;
Enalapril + Hydrochlorothiazide - 0.0125 + 0.01/0.01 + 0.025;
Nifedipine - 0.01;
Amlodipine - 0.005/0.01;
Amlodipine + Lisinopril - 0.005 \pm 0.01;
Amlodipine +Perindopril - 0.005 + 0.01/0.01 + 0.005/0.01 + 0.01/0.005 + 0.005;
Verapamil - 0.04/0.08;
Diltiazem - 0.06/0.09/0.120/0.18;
Losartan - 0.05;
Losartan + hydrochlorothiazide - 0.05 + 0.0125;
Valsartan - 0.08;
Valsartan + Hydrochlorothiazide - 0.0125 + 0.08/0.08 + 0.025;
Metoprolol - 0.025/0.05;
Bisoprolol - 0.005/0.01;
Atenolol - 0,025;
Betaxolol - 0.005/0.001;
Nebivolol - 0,005;
Moxonidine - 0.0002/0.0003;
Analgin 50% -2.0/-2.0 Papaverine 2%/Dibazol 0.5% - 2.0;
Magnesium sulfate - 25% - 5.0;
Morphine hydrochloride 1% -1.0;
Plantaglucid - 50.0 (fl.)
Omeprazole - 0.02;
Lansoprazole - 0.03;
Gefal - 5ml;
Almagel - 50ml;
```

```
De-nol - 0.12;
```

Ranitidine - 0.15 / 0.3;

Drotaverinum - 0.04;

Pancreatin - 30 U;

Amoxicillin - 0.5 + Clarithromycin - 0.5 + Omeprazole - 0.02;

Metoclopramide - 0.01;

Aminocaproic acid - 5% - 100/200;

Vikasol 1% - 1.0