

Practice in Patient Care at the Therapeutic Department of a Hospital: Workbook. Clinical manual



The manual contains workbooks on Practice in Patient Care, which are aimed at improving the self-training of English-speaking students of the 2nd year to practical classes at the therapeutic department of a hospital. The structure and contents of the manual are adapted to the requirements of the new curriculum of the discipline «Practice in Patient Care» for training of specialists of the second (master's) level of higher education, educational qualification «Master of Medicine». Structured self-study questions, situational tasks and quiz test questions will simplify and facilitate students' work on their own. The manual was worked out by the teachers of the Department of Propaedeutics of Internal Medicine No. 2 at Bogomolets National Medical University taking into account all suggestions and comments received during recent years from the pedagogical team, students and practicing doctors. Manual for 2nd year medical students' work on their own to prepare for practical classes for students of higher medical educational establishments.

V.Ye. KONDRATIUK, V.A. KHOMAZIUK

# Practice in Patient Care at the Therapeutic Department of a Hospital

### Workbook Clinical manual

Recommended by the Academic Council of Bogomolets National Medical University as a manual for students of higher medical educational establishments

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Manual for 2<sup>nd</sup> year medical students' work on their own to prepare for practical classes for students of higher medical educational establishments.

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#### **Abbreviations**

ACS – acute coronary syndrome

AED - automated external defibrillator

AF – atrial fibrillation

AH - arterial hypertension

AHA – American Heart Association

AIDS – acquired immune deficiency

syndrome

ALS - advanced life support

AV – atrioventricular

BMI - body mass index

BLS - basic life support

BP - blood pressure

CBC - complete blood count

COPD - chronic obstructive pulmonary

disease

CPR - cardiopulmonary resuscitation

CT - computed tomography

CVD - cardiovascular disease

CVS - cardiovascular system

CXR - chest X-ray

DASH diet - DietaryApproaches to

Stop Hypertension

ECG - electrocardiography

ESR - erythrocyte sedimentation rate

ESRD - end-stage renal disease

GCS - Glasgow Coma Scale

GFR - glomerular filtration rate

GI - gastrointestinal

HBV - hepatitis B virus

Hb - hemoglobin

HCV- hepatitis C virus

HDL – high density lipoprotein

HEENT - head, eyes, ears, nose, throat

HF - heart failure

HIV - human immunodeficiency virus

HR - heart rate

ICU - intensive care unit

IHD - ischemic heart disease

IM – intramuscular

IV - intravenous

JVP - jugular venous pressure

LDL – low-density lipoprotein

LVH - left ventricular hypertrophy

MI – myocardial infarction

MRI - magnetic resonance imaging

NHLBI - National Heart, Lung and

Blood Institute, U.S. Department of

Health & Human Services

NIH - National Institutes of Health,

U.S. Department of Health & Human

Services

NMU - National Medical University,

Kyiv, Ukraine

OSCE - Objective Structured Clinical

Exam

PE – physical examination

PEG - percutaneous endoscopic

gastrostomy

PVC - premature ventricular

contraction

RBC - red blood cells or erythrocytes

RR - respiratory rate

SC – subcutaneous

TPN – total parenteral nutrition

UTI - urinary tract infection

VF – ventricular fibrillation

WBC – white blood cells or leucocytes

WHO - World Health Organization

WMA – World Medical Association

#### **Preface**

Practice in Patient Care is an introductory practical course of clinical medicine. During their first steps in a hospital medical students get acquainted with structure and principles of patient care, organization of work in the therapeutic departments. They begin to learn the methods of examination, symptoms of internal diseases, simple therapeutic procedures, and gain experience of dealing with patients. This manual is an accessible workbook for 2nd-year medical students who are preparing for practical classes at clinic.

The structure and contents of the manual are adapted to the requirements of the new curriculum of the discipline "Practice in Patient Care" for training of specialists of the second (master's) level of higher education, educational qualification "Master of Medicine". The manual contains 6 workbooks for Module 1 which covers structure and main tasks of patient care in treatment of therapeutic patients. Workbook for each practical class provides summary of the topic, suggested readings, useful information and two variants of structured self-study tasks and quiz test questions for students' training at home. The convenient design of this edition allows students to make notes, drawings and fill in specific tables.

The manual also has the section of useful supplements. It contains the scheme of case report and algorithms for Objective Structured Clinical Exam (OSCE). The scheme of case report presents the order of history taking and physical examination, it will help students to see the framework they will be using. Sample OSCE stations are provided to prepare students for a new format of undergraduate clinical exams and to help them in development of practical skills.

The manual was worked out by the teachers of the Department of Propaedeutics of Internal Medicine No. 2 at Bogomolets National Medical University taking into account all suggestions and comments received during recent years from the pedagogical team, students and practicing doctors. We hope that the workbook will simplify and facilitate students' work on their own.

# MODULE 1

#### Structure and Main Tasks of Patient Care in the General System of Treatment of Therapeutic Patients

#### Workbook 1

Topic of practical class 1: "The main principles of general and special care for the patients with internal diseases. Therapeutic departments in a hospital, organization of their work"

**Summary of the topic.** History of development of medical care. The role of patient care in diagnostics and treatment of internal diseases; structure and management of patient care. Medical ethics and deontology in the formation of a medical specialist. Basic professional responsibilities of the junior medical staff in the therapeutic departments of the hospital and outpatient clinic. Principles of professional subordination in the doctor – nurse – junior medical staff system. The concept of medico-prophylactic, sanitary and hospital regimens of the therapeutic hospital, the role of the junior medical staff in their implementation.

The main therapeutic departments and accessory units in the hospital. Functions of the hospital admission department in the reception and transfer of patients to specialized departments. Admission and registration of patients. Recording information (register of patients admitted to hospital, case report, and statistics card). Sanitary-antiepidemic regimen of the admission department, sanitization of patients. Transportation of patients to specialized departments of the hospital.

General characteristics of the therapeutic department, structure and function. Basic responsibilities of the junior nurse. Nursing post and organiza-

#### Structure and Main Tasks of Patient Care...

tion of nurse work, equipment of the nursing post. Organization of visiting patients. Ensuring the sanitary and hygienic regimen of the department. Preparation and use of disinfectant solutions. Characteristic of cleaning the premises of the therapeutic department.

#### Suggested Readings:

- 1. Patient Care (Practical Course) = Догляд за хворими: textbook / O.M. Kovalyova, V.M. Lisovyi, R.S. Shevchenko et al. 2nd edition, corrected. Kyiv: AUS Medicine Publishing, 2018. P. 4–36.
- 2. Propedeutics to Internal Medicine: textbook for English learning students of higher medical school. Part 1. Diagnostics / O.M. Kovalyova, T.V. Ashcheulova. 3rd ed. Vinnytsia: Nova Knyha, 2017. P. 7–14.
- 3. Lippincott Manual of Nursing Practice / Sandra M. Nettina. 11th ed. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins, 2018. P. 2—23.
- 4. Bates' guide to physical examination and history taking / Ed. by L.S. Bickley, P.G. Szilagyi, R.M. Hoffman. 12th ed. Wolters Kluwer, 2017. P. 17–18, 100–103.
- 5. General Care of a Patient / Edited by Batushkin V.V., Mozhdehi Z.K. Pavlograd: TOV "IMA pres", 2017. P. 4–12.
- 6. Medical Ethics Manual. 3rd ed. World Medical Association, 2015. P. 7–56. Available at https://www.wma.net/what-we-do/education/medical-ethics-manual/

#### **Useful Information:**

All medical staff in their professional activities follow the principles and rules that are defined by the World Medical Association (WMA). The Physician's Pledge was adopted in 1948 in Geneva and then was amended many times.

#### WMA DECLARATION OF GENEVA

At the time of being admitted as a member of the medical profession: I SOLEMNLY PLEDGE to consecrate my life to the service of humanity;

I WILL GIVE to my teachers the respect and gratitude that is their due; I WILL PRACTISE my profession with conscience and dignity;

THE HEALTH OF MY PATIENT will be my first consideration;

I WILL RESPECT the secrets that are confided in me, even after the patient has died:

#### MODULE 1

I WILL MAINTAIN by all the means in my power, the honour and the noble traditions of the medical profession;

MY COLLEAGUES will be my sisters and brothers;

I WILL NOT PERMIT considerations of age, disease or disability, creed, ethnic origin, gender, nationality, political affiliation, race, sexual orientation, social standing or any other factor to intervene between my duty and my patient;

I WILL MAINTAIN the utmost respect for human life;

I WILL NOT USE my medical knowledge to violate human rights and civil liberties, even under threat;

I MAKE THESE PROMISES solemnly, freely and upon my honour [8].

All students practicing in clinic are advised to study and observe standard and universal precautions to prevent the spread of infectious disease. Handwashing is a standard precaution. White coats and stethoscopes also accumulate bacteria and should be cleaned frequently.

#### Recommendations for Hand Hygiene

- 1. Key situations where hand hygiene should be performed include:
- a. before touching a patient, even if gloves are worn;
- b. before exiting the patient's care area after touching the patient or the patient's immediate environment;
- c. after contact with blood, body uids, or excretions, or wound dressings;
  - d. prior to performing an aseptic task (e.g., preparing an injection);
- e. if hands are moving from a contaminated-body site to a clean-body site during patient care; and
  - f. after glove removal.
- Use soap and water when hands are visibly soiled (e.g., blood, body uids), or after caring for patients with known or suspected infectious diarrhea. Otherwise, the preferred method of hand decontamination is with an alcohol-based hand rub [1].

Structure	and	Main	Tasks	of	Patient	Care
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#### Variant 1

Write	answers	to	the	self-study	questions:

1. What does patient care consist of? What are the measures of patient care?
2. Define the terms "medical deontology" and "iatrogenic". What are the rules of medical ethics that a student must follow while working in a therapeutic department?
3. What is the aim of sanitary regimen? What are sanitary-hygenic requirements in the therapeutic departments of a hospital?

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