

Ministry of Health of Ukraine
Kharkiv National Medical University

Ministry of Education and Science of Ukraine
V. N. Karazin Kharkiv National University

DIAGNOSIS, TREATMENT, AND PREVENTION OF MAJOR CARDIOVASCULAR, MUSCULOSKELETAL AND CONNECTIVE TISSUE DISEASES

**In 3 Volumes
Volume 2**

Manual for 5th year students
of medical university of level IV of accreditation

*Edited by member of NAMS of Ukraine, Professor O. M. Bilovol,
Member of AS of Higher Education of Ukraine, Professor P. G. Kravchun,
MD, PhD, Associate Professor G. Yu. Tytova*

Recommended by Ministry of Education and Science as a manual for students
of higher medical educational institution of level IV of accreditation
Recommended by the Ministry of Health as a manual for students
of higher medical educational institution of level IV of accreditation

Kharkiv – 2017

УДК 616.12 – 071 – 085 – 084 (075.8)

ББК 54.10я73

D 53

Reviewers:

M. A. Vlasenko – MD, PhD, Professor (KhMAPE);

Yu. S. Rudyk – MD, PhD, Professor (Institute of Therapy named after L. T. Malaya of AMS of Ukraine).

Authors:

O. M. Bilovol, P. G. Kravchun, G. Yu. Tytova, O. I. Zalyubovska, V. M. Savchenko, L. A. Lapshina, O. M. Shelest, V. D. Babadzhan, M. I. Kozhyn, O. Yu. Borzova, O. V. Lomakina, N. G. Ryndina, O. A. Liepieieva, P. P. Kravchun, Yu. O. Kovalyova, V. I. Zolotaikina, O. I. Kadykova, N. V. Shumova.

*Recommended by Ministry of Education and Science as a manual for students of higher medical educational institution of Level IV of accreditation
(Protocol № 1/11-17372 from 13.11.2013)*

*Recommended by Ministry of Health as a manual for students of higher medical educational institution of Level IV of accreditation
(Protocol № 23-01-25/235 from 09.12.2013)*

D 53 **Diagnosis**, treatment, and prevention of major cardiovascular, musculoskeletal and connective tissue diseases : in 3 vol. : manual for 5th year students of medical university of level IV of accreditation / O. M. Bilovol, P. G. Kravchun, G. Yu. Tytova [et al.] ; ed. by O. M. Bilovol, P. G. Kravchun, G. Yu. Tytova. – Kharkiv : V. N. Karazin Kharkiv National University, 2017. – Vol. 2. – 144 p.

ISBN 978-966-285-359-9

This book is compiled in accordance to the credit-transfer system. The manual formulates specific goals to be achieved by the students providing performance targets and mastering some practical skills. For each Unit a detailed master plan for educational aims, algorithms (protocols) of examination, diagnosis, treatment and prevention of diseases, according to the standards of evidence-based medicine are provided.

The manual contains clinical tasks, compiled in the form of multiple choice questions. Their purpose is to assess the level of knowledge and consolidate their knowledge. The manual was prepared in accordance with ICD-10 and according to the curriculum for 5th year students of medical university level IV of accreditation.

UDC 616.12 – 071 – 085 – 084 (075.8)

BBC 54.10 ya73

ISBN 978-966-285-358-2 (Vol. 1)

ISBN 978-966-285-359-9 (Vol. 2) © Kharkiv National Medical University, 2017

© V. N. Karazin Kharkiv National University, 2017

© Bilovol O. M., Kravchun P. G., Tytova G. Yu. et al., 2017

© Donchik I. M., design of cover, 2017

CONTENTS

| | | |
|----------|---|-----|
| | INTRODUCTION..... | 4 |
| Unit 11. | Cor pulmonale, pulmonary hypertension..... | 7 |
| Unit 12. | Chronic heart failure..... | 32 |
| Unit 13. | Neurocirculatory dystonia or Da Costa's syndrome..... | 66 |
| Unit 14. | Abnormal heart rhythm and conduction..... | 79 |
| Unit 15. | Methods of investigation in cardiology..... | 111 |