



5. year: General Medicine

Clinical Biochemistry	E. Ďurovcová, R. Lenártová, L. Hostačná	Clinical Biochemistry – Lectures https://portal.lf.upjs.sk/articles.php?aid=145	2026
	E. Ďurovcová, M. Mareková	Clinical Biochemistry – Selected chapters, UPJŠ, Portal FM https://portal.lf.upjs.sk/articles.php?aid=114	2026
	E. Ďurovcová, M. Mareková	Clinical Biochemistry, ISBN 978-808152-937-5 (e-publication)	2020
	Murphy MJ et al.	Clinical Biochemistry: An Illustrated Colour Text. 7th ed. Elsevier; 2023. ISBN 978-0-323-88057-2.	2023
	Lieberman MA et Peet A.	Marks' Basic Medical Biochemistry: A Clinical Approach. 6th ed. Philadelphia: Wolters Kluwer; 2022. ISBN 978-1-9751-7471-2.	2022
	Nessar A.	Clinical Biochemistry, 2 nd edition, Oxford University Press	2016

Required study literature is written by **bold font**

Clinical Biochemistry – Lectures

MUDr. Eva Ďurovcová, PhD., MUDr. Renáta Lenártová, PhD., MUDr. Lenka Hostačná, PhD.

The Clinical Biochemistry subject in the 5th year of medical studies builds on the knowledge acquired in Medical Biochemistry during the 2nd year. It involves applying biochemistry and pathobiochemistry to laboratory findings interpretation. The subject covers biochemical investigation methods for diseases of selected organs through lectures and seminars. It places particular emphasis on water, ion, and acid-base balance disorders, as well as prevalent conditions like diabetes mellitus and dyslipidaemia. Practical training in interpreting laboratory findings integrates patient case studies and model patients.



<https://portal.lf.upjs.sk/articles.php?aid=145>

Clinical Biochemistry – selected chapters

MUDr. Eva Ďurovcová, PhD., prof. Ing. Mária Mareková, CSc.

The electronic textbook "Clinical Biochemistry – Selected Chapters" aims to be a practical resource for senior medical students and new doctors studying laboratory medicine. It is designed to help them understand commonly used clinical-biochemical tests and serves as a starting point for a deeper exploration of laboratory methods and their application in diagnostic and monitoring procedures. In addition to an introductory chapter, the textbook contains 14 chapters focusing on disorders of water-ion and acid-base balance, biochemical diagnosis of various organ-related diseases (kidneys, liver, heart, thyroid gland, and adrenal glands), as well as common conditions like diabetes and dyslipidaemia. It also covers topics, such as inflammation,



List of required and recommended literature
Department of Medical and Clinical Biochemistry

oncological diseases, and iron and hem metabolism. The second edition of the textbook has been updated to reflect current changes in professional recommendations and to be more understandable for users.

<https://portal.lf.upjs.sk/articles.php?aid=114>

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<https://unibook.upjs.sk/img/cms/2020/lf/clinical-biochemistry.pdf> or
www.unibook.upjs.sk; <https://unibook.upjs.sk/img/cms/2020/lf/clinical-biochemistry.pdf>



The electronic textbook (e-publication) of Clinical Biochemistry – selected chapters (2nd edition) has the ambition to become a practical aid for senior medical students and beginning doctors in the study of laboratory medicine. It should make it easier for them to orientate themselves in routinely used clinical-biochemical examinations and could form a springboard for a more detailed study of laboratory methods and their use in diagnostic and monitoring algorithms. The textbook focuses on disorders of water-ion and acid-base balance disorders, and basic diagnostics of diseases of selected organs.