




List of required and recommended literature

1. year: Dental Medicine, WT

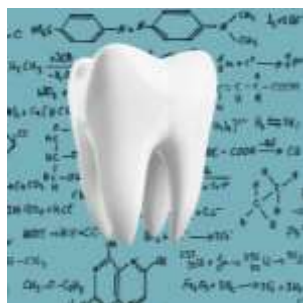
 Chemistry of Dental Materials	Hubková B., Mašlanková J., Smolko L. <i>et al.</i>	Chemistry of Dental Materials – Lectures https://portal.lf.upjs.sk/articles.php?aid=38	2025
	Hubková B. <i>et al.</i>	Chemistry of Dental Materials – Instructions and protocols for practical exercises https://portal.lf.upjs.sk/articles.php?aid=161	2025
	Stupák M <i>et al.</i>	Medical Chemistry – “Hand book” for students of General and Dental Medicine https://portal.lf.upjs.sk/articles.php?aid=69	2024
	Stupák M <i>et al.</i>	Medical Chemistry – Calculation https://portal.lf.upjs.sk/articles.php?aid=232	2024
	Urban P. <i>et al.</i>	Chemistry – Repetitorium https://portal.lf.upjs.sk/articles.php?aid=236	2017
	Országová Z., Žitňanová I. <i>et al.</i>	Medical Chemistry	2008

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

Chemistry of Dental Materials – Lectures

doc. Ing. Beáta Hubková, PhD., RNDr. Jana Mašlanková, PhD., doc. RNDr. Lukáš Smolko, PhD., doc. RNDr. Marek Stupák, PhD, doc. Ing. Katarína Dubayová, PhD,:

The subject Chemistry of Dental Materials includes selected chapters from general, inorganic, and physical chemistry. Teaching focuses mainly on introduction to the study of the chemical properties of materials routinely used in dentistry. The lectures are focused on selected parts of the study of metals, including noble metals and their alloys. Furthermore, attention is focused on ceramic materials, on dental cements, as well as on polymerization and substances resulting from polymerization and used in dentistry for both restorative and prosthetic purposes. Information about dental materials, auxiliary dental materials, as well as the importance of polymerization in dentistry is crucial for future dentists.



<https://portal.lf.upjs.sk/articles.php?aid=38>

Chemistry of Dental Materials – Instructions and protocols for practical exercises

doc. Ing. Beáta Hubková, PhD., RNDr. Jana Mašlanková, PhD., doc. RNDr. Lukáš Smolko, PhD., doc. RNDr. Marek Stupák, PhD:

Practical exercises from Chemistry of Dental Materials is a set of experimental exercises designed for a better understanding of the subject. Practical experimental tasks enable students to become familiar with the basic chemical calculation and with chemical properties of materials commonly used in dentistry. They contribute to a better understanding of the properties of e.g., hydroxyapatite, metal corrosion and other properties of elements contained in dental materials. Separate attention is paid to dental plaster – its preparation and properties. Laboratory manuals for the practical exercises are arranged into weeks according to the syllabus and contain theoretical introduction as well as experimental procedures for each exercise.



<https://portal.lf.upjs.sk/articles.php?aid=161>



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Department of Medical and Clinical Biochemistry



Medical Chemistry – “Hand book” for students of General and Dental Medicine

doc. RNDr. Marek Stupák, PhD., doc. RNDr. Lukáš Smolko, PhD., doc. Mgr. Peter Urban, PhD., RNDr. Jana Mašlanková, PhD., doc. Ing. Beáta Hubková, PhD., doc. RNDr. Beáta Čižmarová, PhD., doc. MUDr. Anna Birková, PhD., doc. RNDr. Vladimíra Tomečková, PhD. univ. prof., doc. RNDr. Miroslava Rabajdová, PhD. univ. prof., doc. Ing. Katarína Dubayová, PhD., prof. Ing. Mária Mareková, CSc.:

This publication is intended mainly for students of medicine studying at the Faculty of Medicine, Pavol Jozef Šafárik University in Košice. The textbook covers the basic knowledge of selected topics of general, physical, inorganic, organic and organic chemistry required for successful completion of the course of Medical



Chemistry. Knowledge of the structures and functions of chemical substances and compounds, as well as their interactions and factors of surroundings influencing those interactions is very important for next study medical biochemistry incoming physicians. For better and easier understanding is the text appropriately supplemented with figures, tables, and numerous of chemical schemes. The separate part of this publication presents the chemistry of the most important dental materials used in clinical practise of future dentists, including the properties of metals, polymers and impression materials.

<https://portal.lf.upjs.sk/articles.php?aid=69>

Medical Chemistry – Calculations

doc. RNDr. Marek Stupák, PhD., doc. MUDr. Anna Birková, PhD., doc. Ing. Beáta Hubková, PhD., doc. RNDr. Miroslava Rabajdová, PhD., RNDr. Jana Mašlanková, PhD. doc. Mgr. Peter Urban, PhD., doc. RNDr. Beáta Čižmarová, PhD., prof. Ing. Mária Mareková, CSc.:



Proper administration of individual medications and reagents is of the utmost importance in the clinical practice of future doctors. It can be affected by age, body weight, kidney and liver health, and other health conditions. Subject Medical Chemistry is therefore an essential part of the theoretical education at medical faculties. The basics for the successful completion of the course are also basic chemistry calculations that are listed in the following study material.

<https://portal.lf.upjs.sk/articles.php?aid=232>

Chemistry – Repetitorium

doc. Mgr. Peter Urban, PhD., doc. RNDr. Lukáš Smolko, PhD., RNDr. Jana Mašlanková, doc. MUDr. Anna Birková, PhD., doc. RNDr. Beáta Čižmarová, PhD., doc. Ing. Beáta Hubková, PhD., doc. RNDr. Marek Stupák, PhD., prof. Ing. Mária Mareková, CSc.:



Knowledge of the structure and function of chemical substances and compounds, as well as their interactions and factors which can influence these interactions are very important for study Medical Chemistry and Biochemistry. The supporting materials are repeating of high school chemistry and represent the summarization of knowledge's from high school. All listed information can help the student to better prepare for exam from Medical Chemistry.

<https://portal.lf.upjs.sk/articles.php?aid=236>