PRACTICUM BOOKLET

MEDICAL CHEMISTRY AND BIOCHEMISTRY

Laboratory Manual and Workbook for Students of Dental Medicine

Aksu Samet, PhD
Sezen Samet, MPharm



BUP BALKAN UNIVERSITY PRESS

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Laboratory Manual and Workbook for Students of Dental Medicine

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Introduction

Chemistry plays an essential role in your everyday dental practice. Procedures such as acid etching of enamel, irrigation of root canals with sodium hypochlorite, fluoride application, and the preparation of cement and impression materials. All these procedures involve chemistry. Understanding the reactions involved helps you understand how a procedure works, what may cause it to fail, and how it can be carried out safely.

This practicum connects the theory learned in lectures with practical laboratory work. In the laboratory, you can observe the chemistry directly: a solution changes color, a protein turns solid, a soap forms, an enzyme stops working. Seeing these changes during an experiment helps you understand the theory and remember how it is applied.

What each practical prepares you for

The practicals follow a logical order. They start with the basic rules of the laboratory, continue with the atoms and molecules of the body, and end with a real dental material.