

Medicines Used in the Emergency Department and Dosage Guide

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Cemil KAVALCI, Professor, MD



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Preface

Emergency departments represent one of the most dynamic settings in modern medicine, where the most critical decisions are made. In this environment, clinical success depends not only on theoretical knowledge but also on the ability to make rapid, accurate, and evidence-based pharmacological decisions. In this context, drug selection, dose adjustment, and administration strategies are among the fundamental factors that directly influence patient outcomes.

This work, titled *Medicines Used in the Emergency Department and Dosage Guide*, has been prepared with the aim of presenting, in a systematic and comprehensive manner, the pharmacological properties, clinical indications, and particularly the dosing approaches specific to emergency department practice for medications frequently used in emergency medicine. The book not only conveys theoretical knowledge but also aspires to serve as a practical and applicable guide that supports clinical decision-making processes.

One of the most distinctive features of this work is the adoption of a structured and standardized section format for each medication. The sections are systematically organized under headings such as introduction, pharmacodynamic and pharmacokinetic properties, general and emergency department-specific indications, detailed dosing protocols, use in special patient populations, adverse effects, toxicity management, and clinical pearls. In particular, emergency department indications and disease-specific dosing strategies are presented in detail in accordance with current guidelines and evidence-based approaches.

Considering that time is limited and decisions are critical in emergency medicine practice, the aim of this book is to provide physicians, residents, and healthcare professionals with a fast-access, reliable, and practical reference source. At the same time, this work seeks to contribute to the academic literature and to become a reference resource at the international level through the presentation of standardized information.

We would like to thank all the chapter authors who contributed to the preparation of this book for their scientific input and meticulous work. Each chapter has been prepared by experienced academics in their respective fields, in light of current literature and clinical experience.

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