Textbook of

MEDICAL PHARMACOLOGY-

An Integrated Approach with

HOMOEOPATHY

(As per 2024 CBDC – Curriculum)

For

- BHMS, UG
- INTERNS
- PG., Ph D.,
- & PRACTITIONERS





AUTHORS

Dr. Srinivas Babu Kathi | Dr. Ksheerasagar Vinay Kumar | Dr. Kavya Boini | Dr. Alekhya Lakkamraju

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First Edition

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Preface

It is with immense pleasure that we present **Textbook of Medical Pharmacology: An Integrated Approach with Homoeopathy**, prepared in accordance with the 2024 CBDC Curriculum for BHMS undergraduates, interns, postgraduates, PhD scholars, and practitioners. The need for an integrated, curriculum-oriented, and clinically meaningful text has become increasingly important in contemporary health education, and this book is our earnest attempt to meet that need.

Pharmacology remains one of the most dynamic and essential subjects in medical sciences, forming the scientific basis of rational drug therapy and patient care. At the same time, homoeopathy emphasizes individualized treatment, careful observation, and a deeper understanding of therapeutics. Therefore, this textbook has been planned to create a balanced bridge between modern pharmacology and homoeopathic principles.

The content has been organized in a clear and progressive manner, beginning with the fundamentals of pharmacology, pharmacokinetics, and pharmacodynamics, and extending to major drug classifications relevant to clinical practice. Special attention has been given to topics that are important for BHMS learners, including the cardiovascular system, central nervous system, respiratory system, hormones, chemotherapy, and other commonly used therapeutic groups.

A competency-based approach has guided the structure of this book so that learners can not only prepare for examinations but also develop a practical understanding of drugs, their actions, and their clinical applications. We have also tried to maintain simplicity of language, logical flow, and adequate integration of concepts so that the text may be useful across different stages of learning and professional practice.

This book is intended to serve as a reliable companion for classroom learning, self-study, revision, and reference. We sincerely hope that it will help students and practitioners strengthen their foundation in pharmacology while appreciating its relevance in homoeopathic education and patient care.

We are grateful to everyone who supported the preparation of this work, and we welcome constructive suggestions for future improvement. It is our hope that this textbook will contribute meaningfully to the academic growth and clinical confidence of the homoeopathic fraternity.

Authors
Srinivas Babu Kathi
Ksheerasagar Vinay Kumar
Kavya Boini
Alekhya LakkamRaju

Acknowledgement

The completion of **"Textbook of Medical Pharmacology: An Integrated Approach with Homoeopathy – As per 2024 CBDC Curriculum"** has been possible through the encouragement, guidance, academic support, and goodwill of several distinguished academicians, administrators, clinicians, teachers, colleagues, and well-wishers.

We express our profound gratitude to **Dr. Umesh Akkaladevi, Founder & Director, Hamsa Homeopathy Medical College, Hospital & Research Centre**, for his visionary leadership, constant encouragement, and invaluable support in promoting academic excellence, teaching, research, and professional development in Homoeopathy.

We are deeply thankful to **Dr. Padmaja Akkaladevi, Director, Hamsa Homeopathy Medical College, Hospital & Research Centre**, for her continuous encouragement, academic support, and motivation throughout the development of this textbook.

We gratefully acknowledge the valuable guidance and academic contributions of **Prof**.(**Dr.) Atla Rajendar Reddy, Retd. Director, AYUSH, Telangana State**, whose extensive experience and commitment to the advancement of AYUSH education have been a source of inspiration.

Our sincere thanks are extended to **Prof.** (**Dr.) S. Praveen Kumar, Retd. Principal, J.S.P.S. Government Homoeopathic Medical College**, for his academic guidance, encouragement, and valuable suggestions.

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We also express our gratitude to **Prof.** (**Dr.) Bhavya Shikha, Professor, JIMS Homoeopathic Medical College**, for her valuable academic insights, encouragement, and support.

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Prof. (Dr.) Navinchandra Pawaskar, Director, JIMS Homoeopathic Medical College**, Prof. (Dr.) N. C. Dhole** Principal, JIMS Homoeopathic Medical College, **Prof. (Dr.) Ram Reddy,** Director, Devs Homoeopathic Medical College, **Prof. (Dr.) T. Murali,** Principal, Devs Homoeopathic Medical College. **Prof. (Dr.) Manilal S**, Director, MNR Homoeopathic Medical College, **Prof.** (**Dr.) P. Venkatrao** Professor, MNR Homoeopathic Medical College, (**Dr.) Suman Chittikanna,** Principal, MNR Homoeopathic Medical College. **Prof.** (**Dr.) Nurus Saher Khan,** Hamsa Homeopathy Medical College, **Prof. (Dr.) Renuka B.Y.** Principal, Gurunanak Homoeopathic Medical College.

We acknowledge the Directors and Principals of Homoeopathic Medical Colleges for their valuable contribution to the advancement of academic excellence and medical education. Their leadership and commitment have provided meaningful support to this academic endeavor.

We acknowledge with gratitude all the **teachers, colleagues, students, clinicians, pharmacists, researchers, and well-wishers** whose knowledge, discussions, constructive suggestions, and encouragement have contributed directly or indirectly to the development of this textbook.

This textbook represents an effort to present Medical Pharmacology in a systematic, comprehensive, and student-friendly manner, while providing an integrated perspective relevant to Homoeopathic medical education and the **2024 CBDC Curriculum**. We sincerely hope that it will serve as a valuable academic resource for students and teachers alike.

Finally, we express our heartfelt gratitude to everyone who supported this academic endeavour. Their encouragement, guidance, and goodwill have been invaluable in bringing this work to completion.

Prof. Dr. Kaushikdas , Prof. Dr. Vinay Kumar, Prof. Dr Sudhir Chauhan Dr Brijkishor,.Dr Dewesh Kumar Dewanshu, Prof. Dr Rinku Biswas, Dr Gajendra Singh , Dr Jitendra Singh Tomar. Prof. Dr. Shimmal Chenthik , Prof. Dr Roopa Salin. Dr Ashik Muhammed .S , Prof. Dr. Sree Raj A S , Prof. Dr. Anjali Prabhu Chodnekar MD (Hom).

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Authors

Srinivas Babu Kathi
Ksheerasagar Vinay Kumar
Kavya Boini
Alekhya LakkamRaju

Foreword 1

It gives me great pleasure to write the Foreword for the ***Textbook of Medical Pharmacology: An Integrated Approach with Homoeopathy***. This book is a valuable academic effort that presents the subject of pharmacology in a simple, systematic, and clinically relevant manner.

Pharmacology is an important subject in medical education. A good understanding of drugs, their mechanisms of action, therapeutic uses, adverse effects, contraindications, drug interactions, and safe use is essential for every healthcare professional. Knowledge of pharmacology helps students develop the skills required for rational and responsible use of medicines in clinical practice.
This textbook has been prepared with an integrated approach to make pharmacology easier to understand and apply. It covers the basic principles of pharmacology, pharmacokinetics, pharmacodynamics, important drug groups, therapeutic uses, adverse drug reactions, contraindications, and clinically relevant aspects of drug therapy.

The integrated approach with homoeopathy is an important feature of this book. It provides learners with an understanding of modern pharmacological principles in the context of homoeopathic medical education. Such knowledge can improve awareness of medicines, possible drug interactions, adverse drug reactions, and patient safety. It also encourages responsible and patient-centred healthcare practices.

The authors have made a sincere effort to present the subject in clear and simple language. The systematic arrangement of topics and emphasis on clinically important concepts should make this textbook useful for students, interns, teachers, practitioners, and other healthcare professionals.

I believe that this textbook will help students develop a strong foundation in pharmacology and understand its importance in clinical practice. It may also serve as a useful reference for classroom teaching, examination preparation, practical learning, and professional development.

I congratulate the authors for their sincere efforts and dedication in preparing this textbook. Bringing together the essential concepts of pharmacology in an accessible and integrated format is a commendable academic initiative.

On behalf of **RVM Institute of Medical Sciences and Research Centre, Laxmakkapally, Siddipet District, Telangana**, I extend my best wishes to the

authors for the successful publication of this book. I hope that this textbook will be useful to students and teachers and will contribute positively to medical education.

Dr. O. Shravan Kumar, Dean
RVM Institute of Medical Science and Research Centre,
Laxmakkapally (V), Mulugu (M), Siddipet Dist. Telangana

Foreword 2

It is a great privilege to write the foreword for **Textbook of Medical Pharmacology: An Integrated Approach with Homoeopathy**, a timely and thoughtfully prepared work aligned with the **2024 CBDC Curriculum** for BHMS students, interns, postgraduates, PhD scholars, and practitioners.

Pharmacology is a cornerstone of modern medical education, and its relevance continues to expand with the rapid growth of scientific knowledge and therapeutic innovation. For homoeopathic learners and practitioners, a clear understanding of pharmacology is especially valuable, as it strengthens clinical reasoning, improves awareness of drug interactions, and supports rational and responsible patient care. This textbook addresses that need in a structured and meaningful way.

The authors have made a commendable effort to present a vast subject in a simple, integrated, and student-friendly manner. The book covers the core principles of pharmacology, pharmacokinetics, pharmacodynamics, major drug groups, and important clinical applications with special emphasis on their relevance to BHMS education. Its integrated approach helps bridge the understanding between modern pharmacology and homoeopathic practice, which is both necessary and very important in today's educational environment.

I am particularly pleased to note that the book has been prepared in a competency-based format, making it useful not only for examination purposes but also for practical learning and professional development. The systematic organization of chapters, clarity of language, and clinical orientation will make this book a valuable resource for learners at different stages of their academic and professional journey.

I congratulate the authors for their sincere academic effort and for contributing a useful textbook to the field of homoeopathic medical education. I am confident that this book will be widely appreciated by students, teachers, and practitioners alike.

I extend my best wishes to the authors for the success of this praiseworthy initiative.

Dr. Umesh Akkaladevi
Founder & Director
Hamsa Homeopathy Medical College
Hospital & Research Centre
Ksheerasagar(V), Mulugu(M), Siddipet Dist. Telangana State

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About The Authors



Prof. Dr. S. N. Babu Kathi BHMS, MSc (EE), MD – Organon of Medicine & Homoeopathic Philosophy, PhD in Homoeopathy is a distinguished academician, researcher, and clinician in the field of homoeopathic medical science. He serves as a Principal, PG Professor and Guide in Homoeopathic Pharmacy at Hamsa Homoeopathy Medical College, Hospital & Research Centre, Telangana. He is a member of the Board of Studies at Kaloji Narayana Rao University of Health Sciences and actively contributes as an academic content writer, reviewer, and editorial member for multiple journals. Dr. Kathi has received notable recognitions, including the 2025 ISSN International Best Researcher Award and the Holistic Teacher Award (2025). His research contributions include major projects under the AYUSH Government of India, focusing on diabetes management, anaemia among adolescent girls, and epidemic conjunctivitis. He has also contributed to revising the 3rd and 4th editions of D.D. Banerjee's Augmented Textbook of Homoeopathic Pharmacy. With over 60 research publications, he continues to make significant contributions to homoeopathic education and clinical research.



Dr. Ksheerasagar Vinay Kumar Ph.D. (Medical Pharmacology), M.Sc. (Medical Pharmacology), is an Associate Professor in the Department of Pharmacology at RVM Institute of Medical Sciences and Research Centre, Siddipet, Telangana, India. He has also completed certified training programs in Pharmacovigilance and Good Clinical Practice (GCP), strengthening his expertise in drug safety and clinical research. With over 12 years of teaching and research experience in reputed medical colleges across India, Dr. Vinay Kumar is a dedicated academician and researcher in the field of pharmacology. He has been actively involved in teaching undergraduate and allied health science students, fostering a strong foundation in pharmacological principles and their clinical applications. Dr. Vinay Kumar has a keen interest in research and has published 10+ Research papers in indexed national and international journals. He is actively involved in ICMR-supported research activities and is currently contributing to academic literature through ongoing book chapters. His areas of expertise include experimental pharmacology, clinical research, pharmacovigilance, and medical education. As an author, Dr. Ksheerasagar Vinay Kumar is committed to presenting pharmacology in a clear, concise, and student-friendly manner, supporting learners in developing a strong conceptual understanding and practical knowledge of the subject.



Dr. Kavya Boini BHMS, MD Homoeo is a dedicated and passionate Homoeopathic physician, currently serving as an Associate Professor and PG Guide in Homoeopathic Pharmacy at Hamsa Homoeopathy Medical College, Hospital and Research Centre, Siddipet, affiliated with KNR University of Health Sciences, Warangal. With a strong academic foundation, she completed a specialized certification in Predictive Homoeopathy in Mumbai (2022). Since 2018, she has actively contributed to both clinical practice and academic research, publishing over 45 research papers in reputed national and international peer-reviewed journals. She has also contributed to the revised 3rd and 4th editions of D.D. Banerjee's Augmented Textbook of Homoeopathic Pharmacy. Dr. Kavya serves as a reviewer and editorial board member for journals such as IJAR and JETIR. Her research interests include mentoring students under CCRH (Ministry of AYUSH) projects and participating in significant clinical studies on anaemia and epidemic conjunctivitis. Recognized for her commitment to research and education, she actively engages in conferences, workshops, and continuing medical education, reflecting her dedication to advancing homoeopathic science.



Dr. Alekhya Lakkamraju BHMS, MD (Hom), MSc (Psychology) is a distinguished Homoeopathic physician and academician with over a decade of clinical experience. She currently serves as an Assistant Professor in the Department of Practice of Medicine at Hamsa Homeopathy Medical College, Hospital and Research Centre, where she contributes to teaching Essentials of Pharmacology under the CBDC curriculum. Integrating psychological insights into her clinical practice, she is committed to holistic patient care and continuous professional development. She has authored several research publications highlighting the clinical efficacy and principles of Homoeopathy, with a strong emphasis on evidence-based approaches.

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