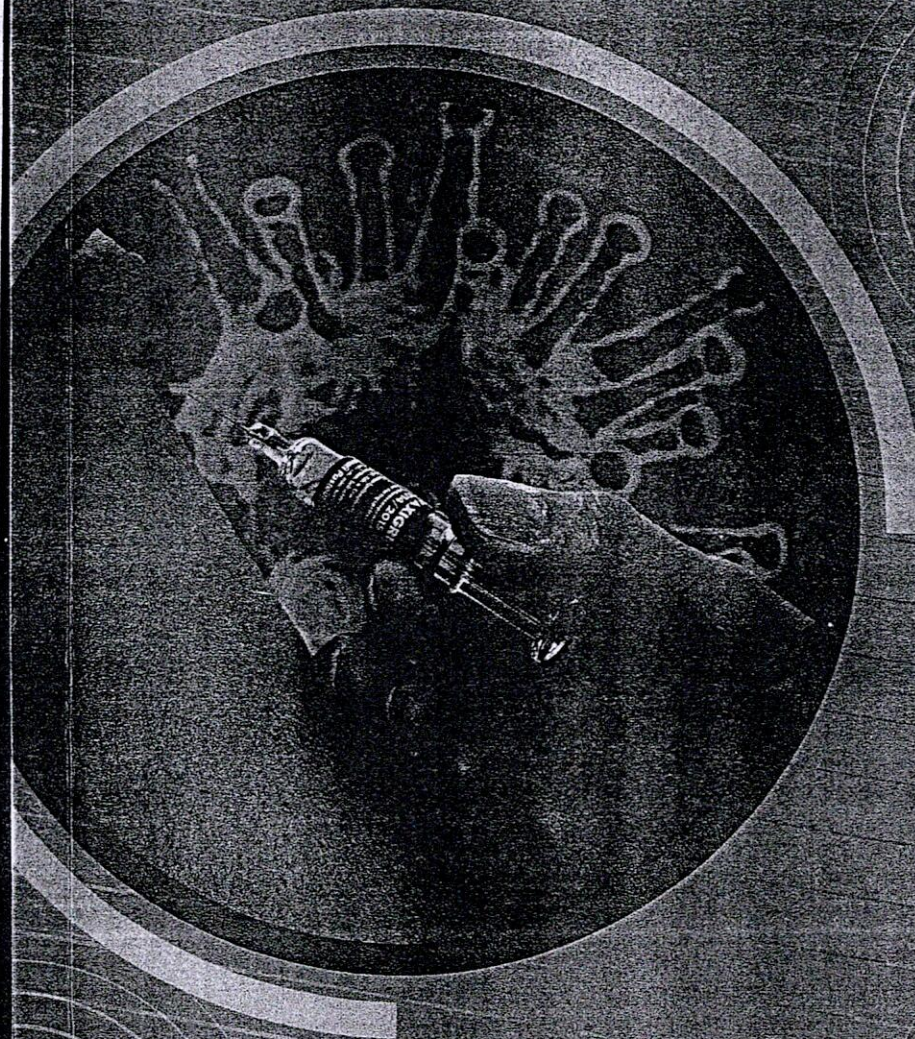


PATHOPHYSIOLOGY

(As Per PCI Syllabus)



Dr. Thilagam Ellappan | Dr. P. Sharmila Nirojini | Prof. Kakasaheb. J. Kore
Dr. Mohd Mukhtar Khan | Dr. G. Santhana Kumar



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Preface

The titled book is "Textbook of **Pathophysiology**" (As per PCI regulation). The idea of book originated by authors to convey a combined database for easy understanding of Pathophysiology.

This book is intended to communicate information on novel drug delivery techniques, to direct tutors and learners regarding fundamental concepts in Pharmacology II.

The major aim to write this textbook is to provide information in articulate summarized manner to accomplish necessities of undergraduates as per PCI regulation. This volume is designed not only according to curriculum of undergraduate courses in pharmacy by PCI but also to communicate knowledge on Pharmaceutical Jurisprudence for post graduate learners. We assured this book will be originated very valuable by graduates, post graduates, professors and industrial learners.

However any suggestion for further improvement of text are welcome and will be taken due note of.

- Author



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Basic mechanism involved in the process of inflammation and repair

Introduction, Clinical signs of inflammation, Different types of Inflammation, Mechanism of Inflammation – Alteration in vascular permeability and blood flow, migration of WBC's, Mediators of inflammation, Basic principles of wound healing in the skin

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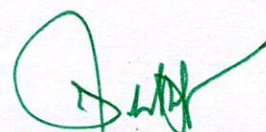
Cardiovascular System:

Hypertension, Congestive heart failure, Ischemic heart diseases (angina, myocardial infarction, atherosclerosis and arteriosclerosis)

Respiratory system: Asthma, Chronic obstructive airways diseases

Renal system: Acute and chronic renal failure




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Dr. P. Sharmila Nirogi working as a Professor and Head of the Department of Pharmacy Practice at Swamy Vivekananda College of Pharmacy. With a robust professional tenure spanning 16 years, she has amassed comprehensive experience in teaching, research, and administration. She obtained her undergraduate (UG) and postgraduate (PG) degrees from the Dr. MGR Medical University in Chennai, India, and achieved her Ph.D. from Acharya Nagarjuna University in Andhra Pradesh. An accomplished researcher, she has authored and published over 50 research and review papers in esteemed national and international journals. She has also presented her research at more than 40 national and international conferences, securing her expertise on a global stage. Notably, she holds a patent to her credit. She received the prestigious "Best Teacher of the Year" award from VET, Namakkal. Furthermore, she is a sought-after guest speaker at international symposiums and conferences. She has provided guidance to over 50 Pharm.D. students and 45 postgraduate students, solidifying her status as a mentor and a catalyst for professional growth in the field of pharmacy practice.



Prof. Maheshb. J. Kore is currently working in Mahadriyanspeeth's College of Pharmacy, Bhilai, Puna (Maharashtra). He has more than 28 years of teaching experience. He has completed his Graduation and Post Graduation from Shivaji University, Kolhapur. He has presented research papers in National and International Conferences of Bhutan, Nepal and in India, also got Best paper presentation award. He has published and presented more than 40 research papers in National, International Journals & Conferences. He has attended more than 20 Conferences/Seminars/Workshops. He has guided a number of PG students. He has three patents and four books on his credit, and also delivered a number of guest lectures in different colleges. He has completed two research projects under SPPU, Pune. He has worked as a member of the staff selection committee. He is a life member of the Association of Pharmaceutical Teachers of India (APTI). He is actively engaged in Teaching, Research, Administration and service to his profession.

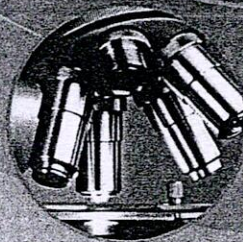
Dr. Mohd. Mukhtar Khan, who holds a Master's degree in Pharmacy and a Ph.D., currently serves as an Assistant Professor at Y. B. Chavan College of Pharmacy in Aurangabad, Maharashtra. He has successfully obtained a Master of Pharmacy degree from Chaudhary College of Pharmacy in Hyderabad, Telangana. They are currently engaged in the pursuit of a doctoral degree from Dr. Babasaheb Ambedkar Marathwada University in Aurangabad. The individual possesses over 12 years of professional experience and has authored over 10 research publications in both national and international journals. Additionally, they have a Published patent application for a polyherbal extract formulation for the management and treatment of cancer.



Dr. G. Sandhana Kumar is an Assistant Professor (Pharmacology), Faculty of Health Sciences, at Marwadi University, Rajkot. He has completed B. Pharm and M. Pharm (Pharmacology) from ROFEL, Sha G. M. Bhakhia College of pharmacy, Vapi (Gujarat Technological University, Ahmedabad). He has completed his Ph.D. (Pharmaceutical Sciences) from R.K. University, Rajkot. He was awarded Ph.D. in 2022. He has 8 years of academic and research experience. His research area includes toxicity studies, experimental pharmacology and preclinical studies relevant to CNS disorders, Metabolic disorder and endocrine disorder. He is a lifetime Member of APTI (Association of Pharmaceutical Teachers Association in India) and (IPS) Indian pharmacological Society. He has guided 02 M. Pharm Students and at present he is co-guiding 01 Ph.D. student from OT university, Punjab. He has published 04 research articles and 02 review articles.



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