

# L Prakasam Reddy Fundamentals Of Medical Physiology

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the main aim of the second south asia edition is to meet the needs of the undergraduate medical students and faculty on south asia by aligning the book to the teaching methods in the subcontinent

textbook of medical physiology 4th edition e book

section 1 general physiology section 2 blood and body fluids section 3 muscle physiology section 4 digestive system section 5 renal physiology and skin section 6 endocrinology section 7 reproductive system section 8 cardiovascular system section 9 respiratory system and environmental physiology section 10 nervous system section 11 special senses index

essentials of medical physiology highlights essential and relevant content of physiology with absolute clarity and includes concise step by step explanations complemented by numerous tables and abundant illustrations the text has been organized systematically into eleven sections general physiology nerve muscle physiology blood and immune system cardiovascular system respiratory system excretory system gastrointestinal system endocrinal system reproductive system nervous system and special senses each section has been subdivided into various chapters this book fulfills the needs of medical as well as dental students its conciseness makes it the preferred book for students of alternative medical sciences ayurveda homeopathy etc and allied health sciences this book will also be very useful for students pursuing masters in physiology about the author indu khurana professor department of physiology post graduate institute of medical sciences rohtak haryana india

the book presents an exhaustive and thorough exposition of the fundamentals of medical physiology the exposition is divided systematically into three sections covering general physiology systemic physiology and specialized integrative physiology each section begins with a brief introduction highlighting the topics covered the subject is then explained in a graded manner with a large number of tables flowcharts and diagrams to aid understanding the level of exposition in the book is sufficiently detailed for it to serve as a useful text for undergraduate courses as well as for pg entrance examinations about the author indu khurana associate professor department of physiology postgraduate institute of medical sciences rohtak haryana india

written through a collaboration of expert faculty and medical students from

harvard medical school this innovative text delivers a straightforward and clear overview of the major principles agents and processes governing human physiology emphasis is on understanding the higher order processes in each organ system concepts in medical physiology avoids long lists of unprioritized information and undefined jargon by presenting fresh concept diagrams and figures alongside clear explanations of quantitative concepts it can function equally well as a primary resource or as a review eight major sections comprising a total of 36 chapters cover general principles muscle and bone blood and the immune system cardiovascular physiology pulmonary physiology renal physiology gastrointestinal physiology and endocrine physiology many useful features simplify mastery of difficult concepts case studies for each major section present detailed cases with signs and symptoms history and laboratory data questions at the conclusion of each case reinforce important clinical concepts reviews of cell biology basic science and biochemistry refresh students on the foundations of physiological knowledge clinical application boxes draw the connection between physiology to practical issues students face and help with preparation for the usmle pathophysiology sections are featured in every chapter review questions with answers in each chapter aid in preparation for the examination integrative physiology inserts highlight how specific systems organs and tissues work together more than 350 illustrations aid with visual learning including original schematic diagrams photos and tables concept focused summaries conclude each chapter for more effective learning and review suggested readings in every chapter provide a valuable resource for further investigation in physiological and clinical ideas

a concise clinically oriented overview of physiology medical physiology a systems approach offers a succinct yet thorough overview of physiology along with an introduction to basic science principles and their relevance to the clinical expression of disease the book reflects medical education s increased emphasis on providing students with more clinically oriented content during their first two years of medical school and the importance of the essential concepts of pathophysiology focused and clearly written medical physiology a systems approach details the major physiological processes involved in both health and disease each chapter begins with a list of objectives includes key concepts and ends with study questions designed to test your knowledge of major concepts covered in that chapter most chapters also include clinical correlations that reinforce the major physiological principles covered and illustrate their importance to understanding disease states

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