## Second Edition Kundu's Practical Medicine

- > A concise, lucid and updated book on practical part of medicine in easily comprehensible language with a unique narrative style
- > A handy monograph on clinical medicine which includes history taking, symptomatology, general survey and systemic examination
- > A book which mimics a clinical teacher to prime students before entering in medicine wards
- > Student-friendly, exam-oriented and easy-to-use outline presentation of clinical methods in a question—answer format
- > A book with plenty of clinical photographs, tables, charts, line drawings and bulleted lists for quick reference to increase the clinical skills



Arup Kumar Kundu MD, FRCP, FICP, MNAS has been working as an internist for more than 30 years and is renowned for his sharp clinical acumen, analytical approach and clarity of expression. He is vibrant and innovative in his field, and is famous for his academic achievements, clinical skills and exemplary personality. He has been awarded aold medal during his postgraduation by University of Calcutta. He has been teaching medicine to

both the undergraduate and postgraduate students, and has been examiner in different Indian universities.

Dr Kundu has authored six other indispensible books on clinical medicine. He is known as a dedicated teacher with exceptional pedagogical skills. He is a gifted orator and has been invited as speaker / faculty in different state, national and international symposia / seminars / conferences. He is credited with more than 120 indexed publications in peer-reviewed medical journals and has written many chapters in different national and international books of repute. During his long journey, he got immense respect and regards, profound admiration and love from innumerable students as well as countless patients.

He, a student-friendly compassionate healer, is well-known all over the country for his proficiency as a brilliant academician, eminent clinician, renowned author, luminous visionary and an illustrious teacher in medicine.



A Hyderabad | Jharkhand | Nagpur | Patna | Pune | Uttarakhand







Second Edition

Kundu's

Prac

 $\bigcirc$ 

0

Ne

0

**CBSPD** Dedicated to Education **CBS Publishers & Distributors Pvt Ltd** 



## Kundu's Practical Medicine An overview of physical examination

As per the latest CBME Guidelines |

Competency Based Undergraduate Curriculum for the Indian Medical Graduate

## Arup Kumar Kundu



## Kundu's Second Edition Practical Medicine

An overview of physical examination

As per the latest CBME Guidelines | Competency based Undergraduate Curriculum for the Indian Medical Graduate

#### Other Books/Chapters by the Same Author

- Bedside Clinics in Medicine, Part I (8th Ed), 2019 (Aug)
- Bedside Clinics in Medicine, Part II (7th Ed), 2020 (Mar)
- Pearls in Medicine for Students (2nd Ed), 2016 (Jan)
- Clinical Medicine at a Glance (1st Ed), 2022 (Jan)
- MCQs in Internal Medicine (6th Ed), 2022 (Mar)
- Memorable Memoirs of a Medico, 2023 (May)

#### Chapters in:

- API Textbook of Medicine, 8th Ed, 2008
- Postgraduate Medicine, 2009
- Rheumatology: Principles and Practice, 2010
- Medicine Update: 2010-15, 2017, 2018, 2021, 2022, 2023
- Progress in Medicine, 2016, 2019, 2020, 2023
- Manual of Rheumatology: 5th Ed, 2018 & 6th Ed, 2023 (in Press)
- Online Appendix of "Kumar & Clark's" textbook, Clinical Medicine, 6-10th Ed

#### *Biography* (Author)

- Included in Marquis Who's Who in the World 2014, 2015, 2016
- Who's Who in Science and Engineering 2016-17, and Wikipedia & WikiVisually
- Gifted Teacher Awardee 2022 (by Central API)

#### Fellow/Member of

- Fellow, Indian College of Physicians (India)
- Fellow, Royal College of Physicians (Edinburgh)
- Member, New York Academy of Sciences (USA)
- Member, International Advisory Panel of "Kumar & Clark's" textbook, Clinical Medicine, 7th–10th Ed (Edinburgh)
- Life-member, Association of Physicians of India (API)
- Life-member, Indian Rheumatology Association (IRA)
- Life-member, Indian Medical Association (IMA)

# Kundu's Second Edition Practical Medicine

## An overview of physical examination

Arup Kumar Kundu MD, FRCP, FICP, MNAS

Ex-Visiting Faculty and Consultant Rheumatologist IQ City Medical College West Bengal, India

#### Formerly

Professor of Medicine and In-charge, Division of Rheumatology NRS MC, KPC MC, IQ City MC, and RG Kar Medical College, West Bengal, India

and

Thirty years of teaching experience in Govt and private medical colleges UG and PG examiner in West Bengal and different Indian universities Immediate past-Chairman, IRA, West Bengal branch, India Biography included in Marquis Who's Who in the World 2014, 2015, 2016 Member, IAP of "Kumar & Clark's" Textbook, 'Clinical Medicine', 7th-10th Ed Mentor and Instructional Coach, pan-India for teaching in MBBS, MD, DNB

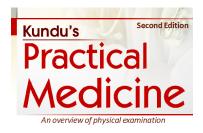


## **CBS Publishers & Distributors** Pvt Ltd

New Delhi • Bengaluru • Chennai • Kochi • Kolkata • Lucknow • Mumbai Hyderabad • Jharkhand • Nagpur • Patna • Pune • Uttarakhand

#### Disclaimer

Science and technology are constantly changing fields. New research and experience broaden the scope of information and knowledge. The author has tried his best in giving information avoilable to him while preparing the material for this book. Although all efforts have been made to ensure optimum accuracy of the material, yet it is quite possible some errors might have been left uncorrected. The publisher, the printer and the author will not be held responsible for any inadvertent errors, omissions or inaccuracies.



ISBN: 978-93-5466-632-2

Copyright © Author and Publisher

#### Second Edition 2024 First Edition 2023

All rights reserved. No part of this book may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage and retrieval system without permission, in writing, from the author and the publisher.

Published by Satish Kumar Jain and produced by Varun Jain for

#### **CBS Publishers & Distributors** Pvt Ltd

4819/XI Prahlad Street, 24 Ansari Road, Daryaganj, New Delhi 110 002, India. Ph: 011-23289259, 23266861 Website: www.cbspd.com e-mail: delhi@cbspd.com

 Corporate Office:
 204 FIE, Industrial Area, Patparganj, Delhi 110 092

 Ph:
 011-4934 4934
 Fax:
 011-4934 4935

e-mail: publishing@cbspd.com; publicity@cbspd.com

#### Branches

- Bengaluru: Seema House 2975, 17th Cross, KR Road, Banasankari 2nd Stage, Bengaluru 560 070, Karnataka, India
   Ph: +91-80-26771678/79 Fax: +91-80-26771680 e-mail: bangalore@cbspd.com
- Chennai: 7, Subbaraya Street, Shenoy Nagar, Chennai 600 030, Tamil Nadu, India Ph: +91-44-26680620, 26681266 Fax: +91-44-42032115 e-mail: chennai@cbspd.com
- Kochi: 42/1325, 1326, Power House Road, Opp KSEB, Power House, Ernakulum Kochi 682 018, Kerala, India Ph: +91-484-4059061-65,67 Fax: +91-484-4059065 e-mail: kochi@cbspd.com
- Kolkata: 147, Hind Ceramics Compound, 1st Floor, Nilgunj Road, Belghoria, Kolkata-700056, West Bengal, India Ph: +033-25633055, 033-25633056
   e-mail: kolkata@cbspd.com
- Lucknow: Basement, Khushnuma Complex, 7 Meerabai Marg (Behind Jawahar Bhawan).Lucknow-226001, UP, India
   Ph: +0522-4000032
   e-mail: tiwari.lucknow@cbspd.com
- Mumbai: PWD Shed, Gala no 25/26, Ramchandra Bhatt Marg, Next to JJ Hospital Gate no. 2, Opp. Union Bank of India, Noorbaug, Mumbai-400009, Maharashtra, India

Ph: 022-66661880/89 e-mail: mumbai@cbspd.com

#### Representatives

<ul> <li>Hyderabad</li> </ul>	0-9885175004	<ul> <li>Jharkhand</li> </ul>	0-9811541605	<ul> <li>Nagpur</li> </ul>	0-8692091830
<ul> <li>Patna</li> </ul>	0-9334159340	<ul> <li>Pune</li> </ul>	0-9664372571	<ul> <li>Uttarakhand</li> </ul>	0-9716462459

Printed at HT Media Ltd., Sector 63, Noida, UP, India

#### My wife Bijoya

for being tolerant, supportive and bearing with my shortcomings all through life, and it is she who always comforts and consoles but never complains or interferes, and

#### All the students

generations of medical students past, present and future, for their constant inspiration to fulfil my irresistible desire for gaining and sharing knowledge

#### to

"Acquire the art of detachment, the virtue of method, and the quality of thoroughness, but above all the grace of humility"

—Sir William Osler (1849–1919)

Canadian physician, Professor of Medicine (Oxford, UK), author, educator, historian and bibliophile who is one of the greatest icons of modern medicine

### Preface to the Second Edition

In view of the wide acceptance of the first edition by the medical fraternity, I have ultimately succeeded to bring out the second edition of the book. My intention is to re-orient the students to identify the basic message of the monograph, that is, to depict the real situations and events present in the text, rather than just ideas and theories. The title of the book initiates an impact on the mind of medical students for better understanding of the practical part of medicine. This part of medical science, a simplified approach to practical medicine, is to be practiced by a doctor throughout his/her life.

The intention of writing *Kundu's Practical Medicine* is to groom and prime young medical students from their earlier days in undergraduate curriculum. Teaching a large number of students for more than 30 years made me realise the need for such a kind of book which is lucid, concise, updated and student-friendly. The skill of communication, clinical examination, objective assessment and planning of treatment can only be gained by learning and practice. This book is full of clinical methods and truly exam-oriented. It is a book for quick review and to achieve a basic grip on the practical part of medicine. This book attempts to present all clinical topics required for a modern, clinical curriculum with easy access to major clinical information for medical students.

Though there is a tremendous change in medical practice with a battery of investigations entering into the medical field in every moment, we cannot ignore the importance of face-to-face consultation as well as examination of the patient. One should appreciate that the improved technologies like internet, fax, e-mail, digitalisation, spiral CT scanning, or wireless capsule endoscopy, can never be a substitute for clinically examining a patient which is known as "Practical Medicine".

I expect that the unique narrative style of the book will allay apprehension of the students for the subject of medicine. I presume that this book will help the students to make their eyes 'watchful', ears 'alert', fingers 'tactful', while making the mind 'logical'.

The book contains more than 200 very lively and appealing clinical photographs, multiple tables and charts, line drawings and bulleted lists for quick reference to increase the clinical skills. I think, the present monograph will help the young medical students, dental students, nurses, and a range of other healthcare professionals, while the clinical tutors will find it a helpful source for learning and teaching.

This work would not have been possible without the constant encouragement of my family members, especially to speak of my son Dr Abhishek, wife Bijoya, and my daughter Ushasi, which ultimately made this book a reality. I acknowledge the sincere help extended by Dr Krishnendu Dey who has given some clinical photographs for the book and Mr Ramkrishna Sharma for preparing the colour atlases. I also record my appreciation to Mr Satish Kumar Jain, Chairman and Managing Director, and Mr Varun Jain, Director, CBS Publishers & Distributors for publishing and distributing

#### **Practical Medicine**

the book to the students all over India and abroad. Mr YN Arjuna, Senior Vice President (Publishing Editorial and Publicity), CBS Publishers & Distributors, needs special mention for his cooperation to bring out this book in an engrossing look.

Healthy suggestions and constructive criticism from students, teachers, or any thoughtful reader through e-mail to me or the publisher will be received with gratitude. Dear students, I wish you the very best in your new adventure.

#### Arup Kumar Kundu

arup2158@gmail.com arup\_kundu@hotmail.com

### Contents

Vİİ

1

15

#### Preface to the Second Edition

#### 1. Introduction

- Instruments to carry 1
- Know these legends and symbols 3
- Advice to beginners starting clinical rotations 5
- General principles of schematic history taking 9

#### 2. General Examination (History and General Survey)

- History 15
- Level of consciousness 18
- Apparent age 19
- Decubitus 19
- Build (built) 21
- Nutrition 26
- Anaemia/pallor 30
- Polycythemia 36
- Cyanosis 37
- Jaundice 41
- Clubbing 46
- Koilonychia 50
- Skin, hairs and nails 51
- Facies 67
- Neck vessels 74
- Lymph nodes 79
- Thyroid gland 85
- Oedema 87
- Skeleton: Height/weight/arm-span/upper segment-lower segment ratio (anthropometry) 92
- Vital signs 98
  - Pulse 98
  - Blood pressure (BP) 107
  - Respiration 111
  - Temperature 117
- Any obvious deformity or outstanding features 124
- General observation: Any acute distress present or not 124
- Handedness with level of intelligence 125
- Breast, hydration and bony tenderness 125
- Hand examination 127

**Practical Medicine** 

x

3. Systemic Examination	131 132
4. Cardiovascular System	
<ul> <li>Scheme of systemic examination 132</li> <li>Common presentations 133</li> <li>Diagnostic format 134</li> <li>Discussion on examination 142</li> </ul>	
5. Respiratory System	153
<ul> <li>Scheme of systemic examination 153</li> <li>Common presentations 154</li> <li>Common respiratory diseases 156, 160</li> <li>Discussion on examination 162</li> </ul>	
6. Gastrointestinal (GI) and Hepatobiliary System	175
<ul> <li>Scheme of systemic examination 175</li> <li>Common presentations 176</li> <li>Discussion on symptomatology 177</li> <li>Discussion on examination 186</li> </ul>	
7. Genitourinary System	201
<ul> <li>Scheme of systemic examination 201</li> <li>Common presentations 202</li> <li>Discussion on examination 204</li> </ul>	
8. Nervous System	211
<ul> <li>Scheme of systemic examination 211</li> <li>Common presentations 213</li> <li>Discussion on examination 220</li> </ul>	
9. Endocrine System	234
0. Haemopoietic (Lymphoreticular) System	247
1. Musculoskeletal (Locomotor) System	258
ndex	269