



IADVL

Handbook of
**Nutrition
Deficiency
Dermatosis**



IADVL

Handbook of Nutrition Deficiency Dermatosis

Editor-in-Chief

K Karthikeyan MBBS MD

Dean, Professor and Head

Department of Dermatology and STD

Sri Mankula Vinayagar Medical College and Hospital, Puducherry

Associate Editor

Sahana Srihari MBBS MD FRGUHS (Pediatric Dermatology)

Assistant Professor

Adesh Institute of Medical Sciences and Research

Bathinda, Punjab

Assistant Editor

Dhananjay K Damle MD, DNB, DDV

Former Associate Professor

BJ Government Medical College, Pune



CBS Publishers & Distributors Pvt Ltd

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



IADVL

Handbook of Nutrition Deficiency Dermatoses



Disclaimer

Science and technology are constantly changing fields. New research and experience broaden the scope of information and knowledge. The editors have tried their best in giving information available to them 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 editors will not be held responsible for any inadvertent errors, omissions or inaccuracies.

ISBN: 978-93-00-000

Copyright © Editors and Publisher

First Edition 2024

All rights reserved. No part of this book may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photo copying, recording, or any information storage and retrieval system without permission, in written, from the editors 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: 011-23266838, 23289259

Website: www.cbspd.com
e-mail: delhi@cbspd.com

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

Ph: 011-49344934

Fax: 011-49344935
e-mail: publishing@cbspd.com; publicity@cbspd.com

Branches

- **Bengaluru:** Seema House 2975, 17th Cross, K.R. 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, Opposite KSEB, Power House, Ernakulum 682018, Kochi, Kerala, India
Ph: +91-484-4059061-67 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: +91-33-25330055/56 e-mail: kolkata@cbspd.com
- **Lucknow:** Basement, Khushuma Complex, 7 Meerabai Marg (behind Jawahar Bhawan), Lucknow 226001, UP, India
e-mail: tiwari.lucknow@cbspd.com
- **Mumbai:** PWD Shed, Gala No. 25/26, Ramchandra Bhatt Marg, Next JJ Hospital Gate No. 2, Opp. Union Bank of India, Noorbaug, Mumbai 400009, Maharashtra, India
Ph: +91-22-66661880/89 e-mail: mumbai@cbspd.com

Representatives

- | | | |
|---------------------------------|---------------------------------|-----------------------------------|
| • Hyderabad 0-9885175004 | • Jharkhand 0-9811541605 | • Nagpur 0-8692091830 |
| • Patina 0-9334159340 | • Pune 0-9664372571 | • Uttarakhand 0-9716462459 |

Printed in India

SECTION I

1. Role of Nutrition in Skin Health and Disease
Karthikeyan Kaliaperumal, Sivasankari Rajamanickam
2. Cutaneous Features of Clinical Syndromes of Undernutrition
Vijayasankar Palaniappan, Aravind Baskar Murthy, Karthikeyan Kaliaperumal

SECTION II: VITAMIN DEFICIENCIES

3. Vitamin A Deficiency
Dhananjay K Damle, Yashashree D Rasal
4. Vitamin D Related Disorders
Shanmathi Sethumadhavan, Saritha M
5. Vitamin E and K Deficiency Disorders
Richa Tayal
6. Thiamine Deficiency Disorders
Sivaranjani
7. Riboflavin Deficiency Disorders
Karthikeyan Kaliaperumal
8. Niacin Deficiency Disorders
Karthikeyan Kaliaperumal
9. Biotin Deficiency Disorders
Hima Gopinath
10. Pantothenic Acid, Cyanocobalamin and Folic Acid Deficiency Disorders
Vijayasankar Palaniappan, Suganya Radhakrishnan, Karthikeyan Kaliaperumal
11. Vitamin C Deficiency Disorders
Aravind Baskar Murthy, Vijayasankar Palaniappan, Karthikeyan Kaliaperumal

SECTION III: MINERAL DEFICIENCIES

12. Iron Deficiency Disorders
Aravind Baskar Murthy, Suganya Radhakrishnan, Karthikeyan Kaliaperumal
13. Zinc Deficiency Disorders
Sahana Srihari
14. Copper, Chromium and Selenium Deficiency Disorders
Prarthana M
15. Iodine Deficiency Disorders
Parul Chojer

SECTION IV: SPECIAL CONDITIONS

16. Nutritional Dermatoses in Neonates and Infants
Malathi
17. Nutritional Dermatoses in Elderly Patients
Suganya Radhakrishnan, Vijayasankar Palaniappan, Karthikeyan Kaliaperumal
18. Nutritional Dermatoses in Patients on Total Parenteral Nutrition
Suganya Radhakrishnan, Aravind Baskar Murthy, Karthikeyan Kaliaperumal
19. Cutaneous Manifestations of Obesity
Anusuya Sadhasivamohan, Vijayasankar Palaniappan, Karthikeyan Kaliaperumal

