



SUCCESS! **in Clinical Laboratory Science**

DONALD C. LEHMAN • JANELLE M. CHIASERA

Fifth Edition

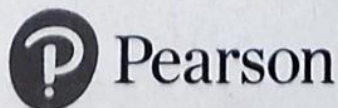
SUCCESS! **in Clinical** **Laboratory Science**

FIFTH EDITION

Donald C. Lehman, EdD, MLS(ASCP)^{CM}, SM(NRCM)
Professor

Department of Medical and Molecular Sciences
College of Health Sciences
University of Delaware

Janelle M. Chiasera, PhD, MT(ASCP)
Senior Executive Associate Dean and Professor
School of Health Professions
The University of Alabama at Birmingham



Singapore London New York Toronto Sydney Tokyo Madrid
Mexico City Munich Paris Cape Town Hong Kong Montreal

Pearson Education South Asia Pte Ltd
9 North Buona Vista Drive
#13-05/06 The Metropolis
Tower One
Singapore 138588

Original Edition SUCCESS! IN CLINICAL LABORATORY SCIENCE, 5th Edition, 9780134989181 by DONALD C. LEHMAN and JANELLE M. CHIASERA, published by Pearson Education, Inc., Copyright © 2020 Pearson Education, Inc.

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 by any information storage retrieval system, without permission from Pearson Education, Inc.

This edition published 2020.

PHILIPPINE edition published by PEARSON EDUCATION SOUTH ASIA PTE. LTD. (PHILIPPINE REPRESENTATIVE OFFICE), Copyright © 2020.

This edition is manufactured in the PHILIPPINES, and is authorized for sales only in the PHILIPPINES.

ISBN: 978-981-31-3684-7

9 8 7 6 5 4 3 2 1 21 20

Cover Art: Rost9. Shutterstock
kurhan. 123rf.com

Contents

Preface / v

Acknowledgments / vii

Certifying Agencies / viii

Contributors / ix

Reviewers / xi

Introduction / xiii

- 1 Clinical Chemistry / 1
- 2 Hematology / 229
Color Plates following page / 238
- 3 Hemostasis / 373
- 4 Immunology and Serology / 421
- 5 Immunohematology / 495
- 6 Bacteriology / 607
- 7 Mycology / 741
- 8 Parasitology / 773
- 9 Virology / 823
- 10 Molecular Diagnostics / 859
- 11 Urinalysis and Body Fluids / 907
- 12 Laboratory Calculations / 955
- 13 General Laboratory Principles, Quality Assessment, and Safety / 979
- 14 Laboratory Management / 1027
- 15 Medical Laboratory Education and Research / 1057
- 16 Computers and Laboratory Information Systems / 1081
- 17 Self-Assessment Test / 1097
- Index / 1125

Special Price Edition

For use in the
Republic of the Philippines only



Distributed by
C&E Publishing, Inc.
Towards Academic and Professional Excellence
839 EDSA South Triangle, Quezon City, Philippines
Tel No. (632) 929-5088 E-mail: info@cebookshop.com
www.cebookshop.com

customerservice@cebookshop.com

PEARSON

ISBN: 978-981-31-3684-7



9 789813 136847