

Training in Minimal Access Surgery

Nader Francis • Abe Fingerhut
Roberto Bergamaschi • Roger Motson
Editors

Training in Minimal Access Surgery

 Springer

Editors

Nader Francis
NHS Foundation Trust
Yeovil District Hospital
Yeovil
UK

Abe Fingerhut
Poissy Cedex
France

Roberto Bergamaschi
Stony Brook Medicine
New York, NY
USA

Roger Motson
Colchester General Hospital
Colchester, Essex
UK

ISBN 978-1-4471-6493-7

ISBN 978-1-4471-6494-4 (eBook)

DOI 10.1007/978-1-4471-6494-4

Library of Congress Control Number: 2015948218

Springer London Heidelberg New York Dordrecht

© Springer-Verlag London 2015

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, express or implied, with respect to the material contained herein or for any errors or omissions that may have been made.

Printed on acid-free paper

Springer-Verlag London Ltd. is part of Springer Science+Business Media (www.springer.com)

Preface

I readily accepted the task to write this Preface for several reasons, but primarily because it addresses a topic of seminal importance to the surgical profession. This book stresses concepts which I have always considered as conceptually valid and important throughout my career, such as *minimal access surgery* (MAS), that is ‘surgery designed to reduce the trauma of access’, rather than the *semantically* incorrect *minimally invasive surgery*. Likewise the use of *learning curve* is not appropriate to describe the complex process by which a trainee surgeon reaches the quasi-automatic stress-free stage, when he or she is able to perform a specific operation consistently well with good patient outcome. The *proficiency-gain curve* goes well beyond ‘learning’ and is at the heart of modern competence-based training and underpins the importance of this book.

There is no doubt that the 13 chapters of *Training in Minimal Access Surgery* provide an excellent account of the advances that have been made in the subject since the advent of MAS in the mid-1980s; in this respect, this book contains a wealth of up-to-date information. Obviously, one expects to encounter some repetition with the involvement of so many authors, but I regard this in a positive light as reinforcement. Important issues such as Training Curriculum in MAS, Simulation and Training in MAS, Training for Trainers in Endoscopy (Colonoscopy), and several others are addressed in a scholarly, objective and detailed manner. I found the chapter on Teletraining in MAS to be particularly stimulating as it heralds the inexorable trend towards globalisation of training, inevitable in the digital age.

I complement the editors Dr. Francis, Dr. Fingerhut, Dr. Bergamaschi and Dr. Motson, all highly respected colleagues and indeed, all the authors for producing a much-needed account on training for MAS. I am sure it will be well received by the colleges and programme directors worldwide.

Prof Sir Alfred Cuschieri, FRSE
Chief Scientific Advisor, Institute for Medical Science
and Technology, University of Dundee

Contents

1 Learning Environment and Setting Up a Training Unit in Minimal Access Surgery	1
Fiona Carter and Nader Francis	
2 Training Curriculum in Minimal Access Surgery	15
J.J. Jakimowicz and Sonja Buzink	
3 Simulation and Training in Minimal Access Surgery	35
Alexander Harris, Fernando Bello, and Roger Kneebone	
4 Teaching Basic Laparoscopic Skills	49
Parul J. Shukla, Sameer Sharma, and Abe Fingerhut	
5 Training for Trainers in Endoscopy (Colonoscopy)	61
John T. Anderson and Roland Valori	
6 Teaching Advanced Laparoscopic Skills in Colorectal Surgery	79
Slawomir Marecik and Roberto Bergamaschi	
7 Teaching Advanced Laparoscopic Skills in Surgery for Morbid Obesity	107
Alice Yi-Chien Tsai, Alan Osborne, and Richard Welbourn	
8 Teaching Advanced Laparoscopic Skills in Urological Surgery	129
Clare Sweeney and Alan McNeill	
9 Training for New Techniques and Robotic Surgery in Minimal Access Surgery	141
Jung-Myun Kwak and Sungsoo Park	
10 Teletraining in Minimal Access Surgery	151
Cavit Avci and Levent Avtan	
11 Assessment and Accreditation in MAS	167
Howard Champion and Abe Fingerhut	

12 Training the Trainer in Laparoscopic Surgery 183
Mark Coleman and Nader Francis

**13 The Human Factor in Minimal Access Surgical Training: How
Conscientious, Well-Trained Surgeons Make Mistakes** 197
Rob Bethune and Nader Francis

Index..... 209