

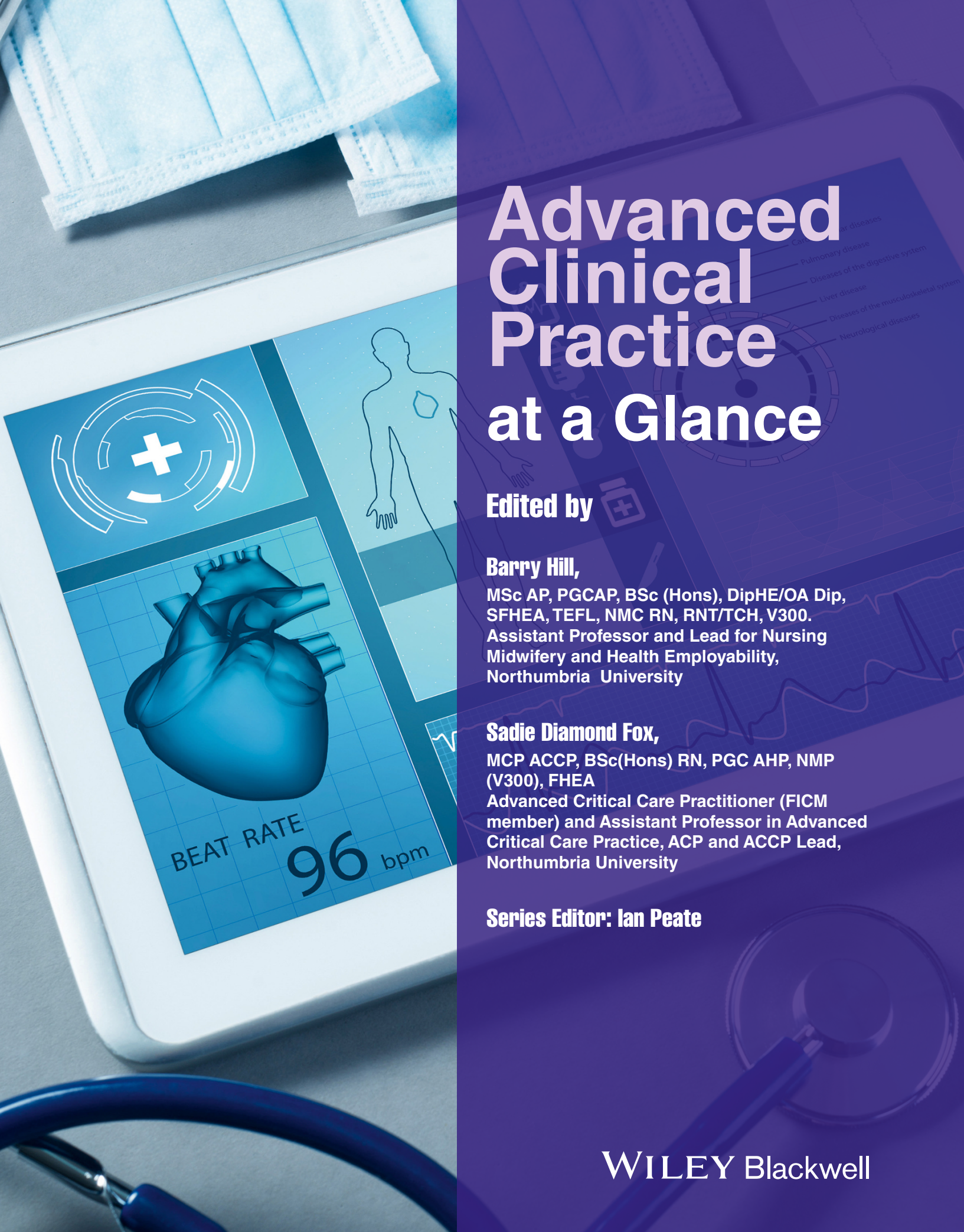
A medical monitor screen is shown, displaying various health-related graphics. At the top left is a circular icon with a white cross. Below it is a 3D anatomical model of a human heart. To the right of the heart is a human silhouette with a chest area highlighted. At the bottom left, the text 'BEAT RATE' is followed by a large '96' and 'bpm'. A small ECG waveform is visible in the bottom right corner of the screen. The background of the entire image is a teal gradient with faint medical icons like a stethoscope and a microscope.

Advanced Clinical Practice at a Glance

**Edited by
Barry Hill
Sadie Diamond Fox**

WILEY Blackwell

**Advanced Clinical
Practice
at a Glance**



Advanced Clinical Practice at a Glance

Edited by

Barry Hill,

MSc AP, PGCAP, BSc (Hons), DipHE/OA Dip,
SFHEA, TEFL, NMC RN, RNT/TCH, V300.
Assistant Professor and Lead for Nursing
Midwifery and Health Employability,
Northumbria University

Sadie Diamond Fox,

MCP ACCP, BSc(Hons) RN, PGC AHP, NMP
(V300), FHEA
Advanced Critical Care Practitioner (FICM
member) and Assistant Professor in Advanced
Critical Care Practice, ACP and ACCP Lead,
Northumbria University

Series Editor: Ian Peate

WILEY Blackwell

This edition first published 2023.

© 2023 John Wiley & Sons Ltd

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, except as permitted by law. Advice on how to obtain permission to reuse material from this title is available at <http://www.wiley.com/go/permissions>.

The right of Barry Hill and Sadie Diamond Fox to be identified as the authors of the editorial material in this work has been asserted in accordance with law.

Registered Offices

John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, USA

John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, UK

Editorial Office

9600 Garsington Road, Oxford, OX4 2DQ, UK

For details of our global editorial offices, customer services, and more information about Wiley products visit us at www.wiley.com.

Wiley also publishes its books in a variety of electronic formats and by print-on-demand. Some content that appears in standard print versions of this book may not be available in other formats.

Limit of Liability/Disclaimer of Warranty

The contents of this work are intended to further general scientific research, understanding, and discussion only and are not intended and should not be relied upon as recommending or promoting scientific method, diagnosis, or treatment by physicians for any particular patient. In view of ongoing research, equipment modifications, changes in governmental regulations, and the constant flow of information relating to the use of medicines, equipment, and devices, the reader is urged to review and evaluate the information provided in the package insert or instructions for each medicine, equipment, or device for, among other things, any changes in the instructions or indication of usage and for added warnings and precautions. While the publisher and authors have used their best efforts in preparing this work, they make no representations or warranties with respect to the accuracy or completeness of the contents of this work and specifically disclaim all warranties, including without limitation any implied warranties of merchantability or fitness for a particular purpose. No warranty may be created or extended by sales representatives, written sales materials or promotional statements for this work. The fact that an organization, website, or product is referred to in this work as a citation and/or potential source of further information does not mean that the publisher and authors endorse the information or services the organization, website, or product may provide or recommendations it may make. This work is sold with the understanding that the publisher is not engaged in rendering professional services. The advice and strategies contained herein may not be suitable for your situation. You should consult with a specialist where appropriate. Further, readers should be aware that websites listed in this work may have changed or disappeared between when this work was written and when it is read. Neither the publisher nor authors shall be liable for any loss of profit or any other commercial damages, including but not limited to special, incidental, consequential, or other damages.

Library of Congress Cataloging-in-Publication Data applied for

Paperback ISBN 9781119833284

Cover Design: Wiley

Cover Image: © Khakimullin Aleksandr/Shutterstock

Set in MinionPro 9.5/11.5 by Straive, Pondicherry, India

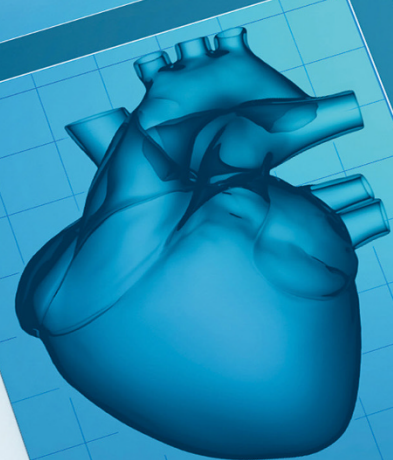
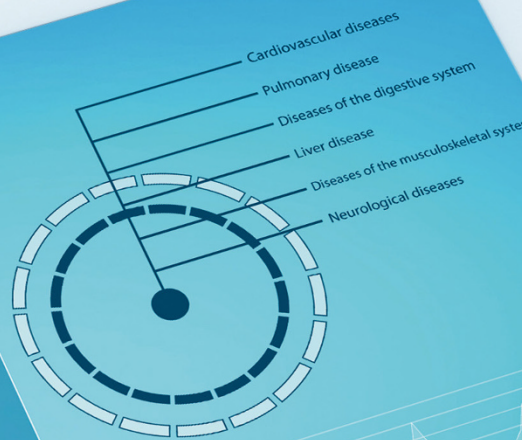
Dedication

This book is dedicated to my friends and family, in particular my dad Ray Hill and friend Helen Jackson who passed away in 2021. I will love you for eternity. Thanks to my co-editor Sadie Diamond-Fox and the Wiley team for your support, and all the book contributors for sharing your knowledge

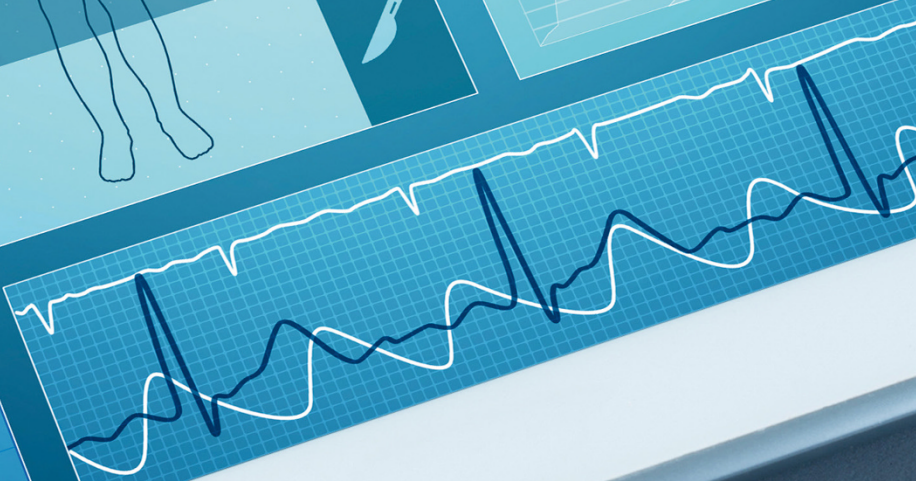
BH

To my 'cheerleaders'; my friends and family, in particular my husband, Alexandra Gatehouse and my co-editor Barry Hill

SDF



BEAT RATE
96 bpm



Contents



Contributors ix

Preface xii

Part 1

Advanced clinical practice 1

- 1 Introducing advanced clinical practice 2
- 2 Scope of practice 4
- 3 Professional, legal and ethical considerations of advanced practice 6
- 4 Advancing to consultant-level practice 8
- 5 Transitioning to advanced practice 10
- 6 Continuing professional development and lifelong learning 12
- 7 Consultation models 14

Part 2

Advanced history taking and physical examination 17

- 8 Principles of history taking and physical examination skills 18
- 9 Principles of diagnostic testing and clinical decision making 20
- 10 The psychiatric interview: mental health history taking and examination 22
- 11 History taking for patients who lack mental capacity 26
- 12 Dermatology history taking and physical examination 28
- 13 Neurological history taking and physical examination 32
- 14 Ear, nose and throat history taking and physical examination 36
- 15 Lymph node assessment 38
- 16 Endocrine history taking and physical examination 40
- 17 Respiratory history taking and physical examination 42
- 18 Cardiovascular history taking and physical examination 46
- 19 Abdominal history taking and physical examination 50
- 20 Genitourinary system history taking and physical examination 52
- 21 Musculoskeletal system history taking and physical examination 56
- 22 Dealing with difficult situations 60

Part 3

Advanced clinical interventions 63

- 23 Fundamental ultrasound skills 64
- 24 Lung ultrasound 66
- 25 Vascular ultrasound 68
- 26 Focused echocardiography 70
- 27 Central venous catheter and arterial catheter insertion 74
- 28 Pleural procedures 78
- 29 Radiology interpretation 82
- 30 The advanced practitioner's role in organ donation and transplantation 84
- 31 Verification of death 86
- 32 Home-based care, crisis response and rehabilitation 88
- 33 Frailty 90
- 34 Advanced practitioner-led inter- and intrahospital transfer 92

Part 4

Independent prescribing 95

- 35 Principles of pharmacology 96
- 36 Non-pharmacological and pharmacological interventions 98
- 37 Shared decision making 100
- 38 Prescribing practice and patient education 102

Part 5

Advanced clinical practice leadership and management 105

- 39 Leadership in healthcare settings 106
- 40 Leadership and management theories 108
- 41 Clinical leadership 110
- 42 Educational leadership 112
- 43 Research leadership 114
- 44 Improving quality of care 116

Part 6

Advanced clinical practice education 119

- 45 Exploring the challenges with advanced clinical practice education 120
- 46 Opportunities for advanced clinical practice education and associated support mechanisms 124
- 47 Education and learning theories 126
- 48 Simulated learning and decision-making theories 128
- 49 Integrating simulation and virtual reality into clinical practice education 130
- 50 The advanced practitioner as clinical educator and supervisor 132

Part 7

Advanced clinical practice research 135

- 51 Ethical and governance principles 136
- 52 Research design and methods 138
- 53 Critical appraisal skills 140
- 54 Audit and quality improvement sciences 142
- 55 From bench to bedside: integrating research into practice 144

References 146

Index 155

Contributors



Clare Allabyrne Chapter 11

Associate Professor and Programme Lead for Advanced Clinical Practice Mental Health, London Southbank University

Jill Bentley Chapters 37, 38

Lecturer in Advanced Clinical Practice, Non-Medical Prescribing and Adult Nursing, and Advanced Critical Care Practitioner (FICM member), Salford Royal Foundation Trust

Lee Berry Chapter 25

Advanced Critical Care Practitioner (FICM member), Southampton General Hospital

Helen Bone Chapter 17

Advanced Critical Care Practitioner (FICM member), James Cook University Hospital

Roberta Borg Chapter 8

Advanced Critical Care Practitioner (FICM member)

Natalie Brady Chapter 51

Occupational Therapist and Advanced Clinical Practitioner in Frailty, Warrington and Halton Teaching Hospitals NHS Trust

Phil Broadhurst Chapters 47, 50

Advanced Critical Care Practitioner (FICM member), Stockport NHS Foundation Trust

Emma Bryant Chapter 9

Advanced Critical Care Practitioner (FICM member), Oxford University Hospitals NHS Foundation Trust

Ashton Burden Selvaraj Chapter 19

Trainee Advanced Critical Care Practitioner University Hospital Coventry & Warwickshire and Intensive Care Society equality, diversity and inclusion group collaborator

Steph Burrows Chapter 35

Advanced Critical Care Practitioner (FICM member), Nottingham University Hospitals NHS Trust

Mark Cannan Chapter 34

Advanced Critical Care Practitioner, North Cumbria Integrated Care NHS Foundation Trust

Enrique Castro-Sanchez Chapter 43

Associate Professor in Infection Prevention and Improvement, University of West London

Eddie Chaplin Chapter 11

Director of Research and Enterprise at London South Bank University and Head of the Scientific Committee of the European Association of Mental Health in Intellectual Disability

Karen Chivers Chapter 14

Consultant Nurse and Advanced Clinical Practitioner, Frimley Health NHS Foundation Trust

Esther Clift Chapter 32

Consultant at Southern Health NHS Foundation Trust, visiting lecturer at University of Winchester, clinical advisor for Wessex Academic Health Science Network, and Professional Adviser for NHSE&I

Rebecca Connolly Chapter 10

Advanced Clinical Practitioner at United Lincolnshire Hospitals NHS Trust and Nottingham University Hospitals NHS Trust, and Senior Lecturer at University of Lincoln

Hannah Conway Chapters 23, 26

Advanced Critical Care Practitioner, Assistant Professor of Advanced Clinical Practice, University of Nottingham, Intensive Care Society (ICS) FUSIC and Education Committee Member, Deputy Chair Advanced Practitioners in Critical Care Professional Advisory Group (APCC), Co-Chair Advanced Clinical Practitioners Academic Network (ACPAN) and PRORVnet

Stuart Cox Chapter 34

Advanced Critical Care Practitioner (FICM member), University Hospital Southampton NHS Foundation Trust and Dorset & Somerset Air Ambulance

Sarah Curr Chapter 42

Lecturer in Nursing Education, King's College London

Jo Delrée Chapter 11

Associate Professor and Head of Division Mental Health and Learning Disability Nursing, London South Bank University

Joanna De Souza Chapters 42, 52
Senior Lecturer in Nursing, King's College London

Sadie Diamond Fox Chapters 1, 5, 7, 8, 12, 16, 17, 20, 42, 49, 52, 55
Advanced Critical Care Practitioner (FICM member) at Newcastle upon Tyne Hospitals NHS Foundation Trust, Assistant Professor in Advanced Critical Care Practice at Northumbria University, Council Member, Education Committee Member and Chair of the Advanced Practitioners in Critical Care Professional Advisory Group (APCC PAG) at the Intensive Care Society (ICS) and Co-Chair at Advanced Clinical Practitioners Academic Network (ACPAN)

Leanne Dolman Chapter 52
Lecturer in Nursing, King's College London

Brigitta Fazzini Chapter 44
Advanced Critical Care Practitioner, Royal London Hospital, Deputy Chair of Intensive Care Society (ICS), Advanced Practitioner in Critical Care (APCC) Professional Advisory Group (PAG), and Co-Chair of Advanced Clinical Practitioners Academic Network (ACPAN)

Jill Featherstone Chapter 30
National Professional Development Specialist in Medical Education for Organ and Tissue Donation and Transplant, NHS Blood and Transplant

Helen Francis-Wenger Chapter 2
Lecturer in Advanced Clinical Practice (FHEA), University of Plymouth, and Advanced Clinical Practitioner in Emergency Medicine (RCEM Member), Royal Cornwall Hospitals Trust.

Alexandra Gatehouse Chapters 16, 20, 31, 55
Advanced Critical Care Practitioner (FICM member), Newcastle upon Tyne Hospitals NHS Foundation Trust

Kirstin Geer Chapter 34
Advanced Critical Care Practitioner (FICM Member), North Cumbria Integrated Care NHS Foundation Trust

Daniel Gill Chapter 30
Advanced Critical Care Practitioner, Northern Care Alliance

Jo-Anne Gilroy Chapter 41
Advanced Critical Care Practitioner (FICM member) and Director of HEE London Advanced Critical Care Programme

Fiona Greenfield Chapter 28
Speciality Lead of Pleural Services (BTS & UK Pleural Society member), Northwest Anglia NHS Foundation Trust

Lucy Halpin Chapters 4, 5
Advanced Critical Care Practice and Program Director in Thames Valley, Advanced Critical Care Practitioner (mFICM)

Jo Hardy Chapter 29
Advanced Physiotherapy Practitioner in Critical Care, Leeds Teaching Hospitals NHS Trust.

Matt Harris Chapter 25
Senior Advanced Critical Care Practitioner (FICM member), University Hospital Southampton NHS Foundation Trust

Alex Hemsley Chapter 24
Trainee Advanced Clinical Practitioner and Emergency Care (RCEM member), Royal Victoria Infirmary at Newcastle upon Tyne Hospitals NHS Foundation Trust

Barry Hill Chapters 5, 13, 15, 20, 21, 22
Director of Education (Employability), Programme Leader and Assistant Professor, Northumbria University

Rebecca Hoskins Chapter 40
Consultant Nurse in Advanced Practice and NMP lead, University Hospitals Bristol and Weston NHS Foundation Trust, Senior Lecturer and Faculty Strategic Lead Advanced Practice, University of the West of England Bristol

Rachael Hosznyak Chapter 54
Supervision and Assessment Lead for Frailty, Rehabilitation and Social Work and Advanced Practitioner in Urgent Care specialising in Frailty at Health Education England, and Registered Paramedic

Robin Hyde Chapter 46
Assistant Professor (Children's Nursing) and Advanced Paediatric Nurse Practitioner and Programme Lead in Children's Nursing, University of Northumbria, Newcastle

Jo Jennings Chapter 33
Advanced Clinical Practitioner Simulation and Clinical Skills Lead, South Warwickshire NHS Foundation Trust, Assistant Professor in Advancing Practice, Coventry University, and Advanced Practice Development Lead for Older Adults, Health Education England

Maureen Jersby Chapter 53
Programme Leader in Advance Clinical Practice and Assistant Professor in Adult Nursing, Northumbria University

Timothy Kuhn Chapter 27
Advanced Critical Care Practitioner (FICM member) and Senior Lead Nurse in Critical Care and Critical Care Outreach Team, Croydon Health Services NHS Trust

Laura Elliott Chapter 12
Programme Lead Advanced Clinical Practice Apprenticeship and Senior lecturer (FHEA) Advanced Practice, University of Northampton

Janine Mair Chapter 39
Acute Care Nurse Consultant, East Kent Hospital University NHS Foundation Trust, and Visiting Senior

Lecturer in Advanced Practice, Canterbury Christ Church University

Tracey Maxfield Chapter 29

Trainee Advanced Clinical Practitioner in Acute Medicine, Airedale NHS Foundation Trust

Caroline McCrea Chapter 18

Advanced Critical Care Practitioner (FICM Member), Portsmouth Hospitals NHS Trust

Elizabeth Midwinter Chapters 48, 49

Matron for Resuscitation and Simulation Services and Advanced Clinical Practitioner in Emergency Medicine, Lancashire Teaching Hospitals NHS Foundation Trust

Gerri Mortimore Chapter 5

Senior Lecturer Advanced Practice and NICE Nurse Expert Advisor, University of Derby

Stevie Park Chapter 30

Trainee Jo Advanced Critical Care Practitioner, University Hospitals Coventry & Warwickshire

Ollie Phipps Chapters 2, 3

Senior Lecturer & Course Director for MSc Advanced Clinical Practice and Non Medical Prescribing, Canterbury Christ Church University, Hon. Associate Professor, University of East Anglia, & Advanced Clinical Practitioner, Maidstone & Tunbridge Wells NHS Trust

Jaclyn Proctor Chapter 51

Senior Lecturer Advanced Clinical Practice, Edge Hill University

Julie Reynolds Chapter 5

Lecturer in Adult Nursing, Keele University

Nicki Weston Chapter 15

Advanced Critical Care Practitioner (FICM Member) Department of Critical Care University Hospitals Sussex NHS foundation Trust Brighton, UK

Vikki-Jo Scott Chapter 44

Senior Lecturer, University of Essex, Senior Fellow of Higher Education Academy, and Registered General Nurse in Critical Care Nursing

Ian Setchfield Chapters 3, 4, 6, 39

Acute Care Consultant Nurse and Advanced Practice Lead, East Kent Hospitals University Foundation NHS Trust, Visiting Senior Lecturer, Canterbury Christ Church University

Sonya Stone Chapters 1, 19

Assistant Professor and Programme Director of Advanced Clinical Practice, University of Nottingham, Advanced Critical Care Practitioner (FICM member), Nottingham University Hospitals NHS Trust

Vanessa Taylor Chapters 45, 46

Deputy Head of School (Nursing) (Students and Teaching) and Professor of Learning, Teaching and Professional Practice (Cancer and Palliative Care), University of Central Lancashire

Dave Thom Chapters 35, 36

Anaesthesia Associate, Dorset County Hospital

John Wilkinson Chapter 7

Anaesthetic Registrar, Health Education England North East

Joe Wood Chapter 24

Advanced Critical Care Practitioner, Physiotherapist and Point of Care Ultrasound Educator, Medway NHS Foundation Trust



Preface

Advanced clinical practice is a defined level of expertise within health and care professions such as nursing, pharmacy, paramedics, and occupational therapy. Practice at this level is designed to transform and modernise pathways of care, enabling the safe and effective sharing of skills across traditional professional boundaries. Advanced clinical practitioners (ACPs) are equipped with the skills and knowledge to allow them to expand their scope of practice to better meet the needs of the people they care for.

Advanced level practitioners are deployed across all health-care settings and work at a level of clinical practice that pulls together the four pillars of clinical practice, leadership and management, education, and research. ACPs are educated to master's level or equivalent, although not all advanced level practitioners in England hold a master's; they have achieved this level of practice through experience and expertise. The need for master's level education is advised, but it is not set by law, nor is 'ACP' a qualification that can be registered with a professional body; it has yet to be made a legally protected title that requires professional registration.

The increasing demand on health services and continued financial constraints mean that it has never been more important to have educated and competent staff delivering the best care possible. It has therefore been recognised that the changing landscapes of both the NHS and the private sector require an advancing level of practice extending beyond initial registration.

Advanced clinical practice is delivered by experienced, registered health and care practitioners. It is 'a level of practice characterised by a high degree of autonomy and complex decision making' and includes the analysis and synthesis of complex problems across a range of settings, enabling innovative solutions to enhance people's experience and improve outcomes. In addition, advanced clinical practice embodies the ability to manage clinical care in partnership with individuals, families, and carers.

This definition of advanced clinical practice has been developed to provide clarity for service users, employers, service leads, education providers and health professionals, as well as potential ACPs already practising at an advanced level. This is the first time that there has been a common multiprofessional definition that can be applied across professional boundaries and clinical settings. The definition serves to support a consistent title and recognises the increasing use of such roles across the UK.

HEE (2017), in partnership with NHS Improvement and NHS England, developed a multiprofessional framework for

advanced clinical practice, which includes a national definition and standards to underpin the multiprofessional advanced level of practice.

The RCN's (2018) definition of advanced clinical practice is in line with that of HEE, in that it acknowledges 'advanced practice is a level of practice, rather than a type of practice'.

HEE's (2017) multiprofessional ACP framework, which built on a preceding NHS England document outlining an advanced practice model (NHS England, 2010), set out a new, bold vision in developing this critical workforce role in a consistent way to ensure safety, quality, and effectiveness. It has been developed for use across all settings, including primary care, community care, acute, mental health and learning disabilities.

The framework recognises that, as the health and care system rapidly evolve to deliver new models of care, health and care professionals have adapted to meet the increasing health needs of individuals, families and communities. For the first time in England, the HEE (2017) framework sets out an agreed definition for advanced clinical practice for all health and care professionals and articulates what it means for individual practitioners to practise at a higher level from that achieved on initial registration.

The multiprofessional framework offers opportunities for mid-career development of new skills, such as prevention, shared decision-making, and self-care. It aims to ensure a common understanding of advanced clinical practice and supports individuals, employers, commissioners, planners, and educators in the transformation of services to improve the patient experience and outcomes.

Written by academics and clinicians, this book provides an essential practical and theoretical resource for healthcare students related to advanced clinical practice. The book utilizes a framework of advanced level practice and is multi-professional and inclusive. This book is the most contemporary at a glance style book of its kind in the UK aimed at all health and social care professionals aiming to work, or working within advanced level practice. This book is the only book to address advanced clinical practice at a glance focusing on NMC and HCPC regulatory body requirements and also aligned to nationally recognised advanced practitioner training curricula such as Faculty Intensive Care Medicine (FICM), Royal College of Emergency Medicine (RCEM), and the Royal College of Nursing (RCN).

This book has been created specifically for the at a glance series, and it is made for the practicing clinician, being only 150 pages, it is the perfect size for busy healthcare professionals. The snapshot figures and key points make this book accessible,

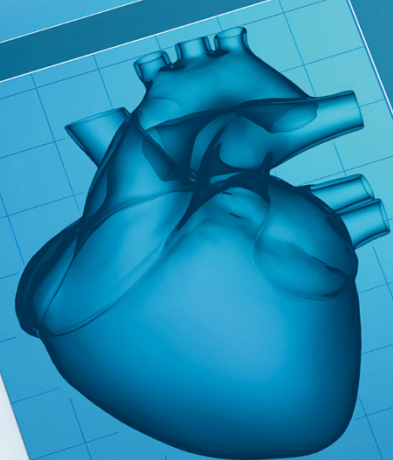
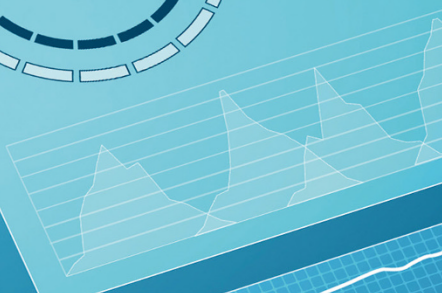
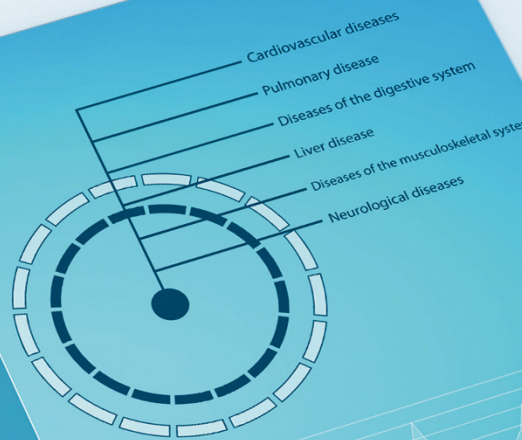
appealing to a variety of learning styles, and focused for busy healthcare professional. Each chapter is written in a format that enables the reader to review the chapter as a complete unit, and therefore the reader can choose in which order they wish to read this book.

A multitude of professional bodies have updated guidance on undergraduate and post graduate education programmes preparing students to prepare for more advanced level roles. The Nursing and Midwifery Council (NMC) updated future nurse pre-registration programme standards, standards for nurses, standards for midwives, standards for nursing associates and standards for post registration Programmes. Additionally, the HCPC and FICM identify and advocate the importance of advanced level practice and this book facilitates the key points at a glance.

This book adheres to the current at a glance series and provide information in a concise and comprehensive manner,

which will engage readers by including full-colour images and graphics as well as accurate and useful information and a user-friendly overview of key advanced practice topics utilising nationally recognised competency frameworks set by bodies such as Health Education England (HEE), FICM and RCEM. The book will also be available in a range of formats, including eBook, to increase accessibility. In summary, we hope this book acts as a good source of reference for our readers. We hope that this book creates a desire for our readers to learn more about advanced clinical practice and use key knowledge to teach and support others who are providing care for patients, with the fundamental principles being the provision of safe and effective care for all patients.

Barry Hill and Sadie Diamond Fox



BEAT RATE
96 bpm



Advanced clinical practice



Part 1

Chapters

- 1** Introducing advanced clinical practice 2
- 2** Scope of practice 4
- 3** Professional, legal and ethical considerations of advanced practice 6
- 4** Advancing to consultant-level practice 8
- 5** Transitioning to advanced practice 10
- 6** Continuing professional development and lifelong learning 12
- 7** Consultation models 14