

# Contents



*Preface* vii  
*Acknowledgements* viii  
*Surgical and anaesthetic abbreviations and acronyms* ix  
*How to use your textbook* xiii

## Part 1

### Introduction to perioperative practice 1

- 1 Preoperative patient preparation 2
- 2 Theatre scrubs and personal protective equipment (PPE) 4
- 3 Preventing the transmission of infection 6
- 4 Preparing and managing equipment 8
- 5 Perioperative patient care 10
- 6 Surgical Safety Checklist – Part 1 12
- 7 Surgical Safety Checklist – Part 2 14
- 8 Legal and professional accountability 16
- 9 Interprofessional teamworking 18

## Part 2

### Anaesthesia 21

- 10 Preparing anaesthetic equipment 22
- 11 Checking the anaesthetic machine 24
- 12 Anatomy and physiology of the respiratory and cardiovascular systems 26
- 13 Anaesthetic drugs 28
- 14 Perioperative fluid management 30
- 15 Monitoring the patient 32
- 16 General anaesthesia 34
- 17 Local anaesthesia 36
- 18 Regional anaesthesia 38

## Part 3

### Surgery 41

- 19 Roles of the circulating and scrub team 42
- 20 Basic surgical instruments 44
- 21 Surgical scrubbing 46
- 22 Surgical positioning 48
- 23 Maintaining the sterile field 50
- 24 Sterilisation and disinfection 52
- 25 Swab and instrument counts 54
- 26 Working with electrosurgery 56
- 27 Tourniquet management 58
- 28 Wounds and dressings 60

## Part 4

### Recovery 63

- 29 Introducing the recovery room 64
- 30 Patient handover 66
- 31 Postoperative patient care – Part 1 68

- 32 Postoperative patient care – Part 2 70
- 33 Monitoring in recovery 72
- 34 Maintaining the airway 74
- 35 Common postoperative problems 76
- 36 Managing postoperative pain 78
- 37 Managing postoperative nausea and vomiting 80

## Part 5

### Perioperative emergencies 83

- 38 Caring for the critically ill 84
- 39 Airway problems 86
- 40 Rapid sequence induction 88
- 41 Bleeding problems 90
- 42 Malignant hyperthermia 92
- 43 Cardiovascular problems 94
- 44 Electrosurgical burns 96
- 45 Venous thromboembolism 98
- 46 Latex allergy 100

## Part 6

### Advanced surgical practice 103

- 47 Assisting the surgeon 104
- 48 Shaving, marking, prepping and draping 106
- 49 Retraction of tissues 108
- 50 Suture techniques and materials 110
- 51 Haemostatic techniques 112
- 52 Laparoscopic surgery 114
- 53 Orthopaedic surgery 116
- 54 Cardiac surgery 118
- 55 Things to do after surgery 120

*References and further reading* 122

*Index* 144