

Contents

Foreword vü
List of contributors ix
Introduction x

- 1 Pathophysiology of SARS-CoV-2 1
Chris Carter & Joy Notter
- 2 Public health emergencies 11
Joy Notter & Chris Carter
- 3 Critical care nurse leadership 31
Chris Carter, Martine Rooney & Joy Notter
- 4 Reorganization of critical care services 41
Chris Carter & Joy Notter
- 5 COVID-19 perspectives in low- and low-middle-income countries 59
Chris Carter, Nguyen Thi Lan Anh & Joy Notter
- 6 Assessment of the critically ill patient 71
Chris Carter, Helen Aedy & Joy Notter
- Non-invasive ventilation and high-flow nasal oxygen in COVID-19 87
Chris Carter, Helen Aedy & Joy Notter
- 8 Invasive ventilation in COVID-19 99
Chris Carter, Michelle Osborn, Gifty Agagah, Helen Aedy & Joy Notter

vi Contents

- 9 Acute respiratory distress syndrome and the prone position in COVID-19 121
Rosaleeta Reece-Anthony, Chris Carter, Grace Lao & Joy Notter
- 10 Haemodynamic assessment, monitoring and management 141
Chris Carter & Joy Notter
- 11 Acute kidney injury 159
Chris Carter, Janice Ferreira, Babita Gurung & Joy Notter
- 12 Neurological care, sedation and pain management 171
Chris Carter & Joy Notter
- 13 Resuscitation in COVID-19 185
Daniel Paschoud, Chris Carter & Joy Notter
- 14 Care of the critically ill obstetric patient 203
Alice Sadra, Chris Carter & Joy Notter
- 15 Providing end-of-life care during the COVID-19 pandemic 219
June Frankland, Chris Carter & Joy Notter
- Appendix 1: Case studies and self-test questions 231
- Appendix 2: Glossary of terms and blood tests 247
- Index 253