

List of contributors iv

Foreword v

Preface vi

1 Basics of thoracic radiography and radiology 1

Ian Porter

2 Basics of thoracic ultrasonography 22

Gabriela Seiler, Joanna Dukes-McEwan and Lorrie Gaschen

3 Basics of thoracic computed tomography 78

Tobias Schwarz

4 Basics of thoracic magnetic resonance imaging 84

Maurizio Longo and Anthony Fischetti

5 Basics of thoracic nuclear medicine 90

Federica Morandi

6 Practical applications of artificial intelligence in thoracic radiology 97

Neil Shaw, Ben van Klinken and Tobias Schwarz

7 Basics of thoracic image interpretation 102

Peter Scrivani and Tobias Schwarz

8 Thoracic boundaries 132

Stacy Cooley and Peter Scrivani

9 The heart and great vessels 172

Joanna Dukes-McEwan

10 The mediastinum 276

Elizabeth Baines and Karine Gendron

11 The pleural space 326

Mairi Frame and Alison King

12 The lungs 356

Peter Scrivani, Tobias Schwarz and Tiziana Liuti

Index 357