Contents

Contributors *vii*
Preface *ix*
Acknowledgments *xi*

1. Definition, Epidemiology, and Phenotypes of Severe Asthma **1**
Sally E Wenzel

2. Economic Burden of Difficult Asthma **14**
Ciaran O'Neill, Claire Telford

3. Clinical Assessment of Difficult Asthma **24**
Annemarie Sykes, Andrew Menzies-Gow

4. Adherence in Difficult Asthma **40**
Rob Horne, Liam G Heaney

5. Psychological Morbidity in Difficult-to-treat Asthma **56**
Adel H Mansur, Alison Pooler

6. Difficult Asthma in Children **73**
Surendran Thavagnanam, Michael D Shields

7. Difficult Asthma—The Patient's Perspective **92**
Jennifer M Versnel, Liam G Heaney

8. Comorbidity in Refractory Asthma **102**
Robert Niven

9. Molecular and Immunological Basis for Severe Therapy-resistant Asthma **120**
Ian M Adcock, Kian F Chung

10. Monitoring and Natural History of Refractory Asthma **145**
Christopher Brightling

11. Novel Treatment Strategies in Refractory Asthma **163**
Neil C Thomson, Rekha Chaudhuri

Index *185*