

# Advances in Equine Upper Respiratory Surgery

Contributors ix

Foreword xi

## **Section I Recurrent Laryngeal Neuropathy 1**

1 Recurrent Laryngeal Neuropathy: Grading of Recurrent Laryngeal Neuropathy 3

Katie J. Smith and Padraic M. Dixon

2 Recurrent Laryngeal Neuropathy: Diagnosis, Dynamic Endoscopy 9

Elizabeth Davidson

3 Ultrasonography of the Larynx for the Diagnosis of Recurrent Laryngeal Neuropathy 17

Heather Chalmers

4 Laser Ventriculocordectomy 21

Jan Hawkins

5 Prosthetic Laryngoplasty 29

Eric J. Parente and Jan Hawkins

6 Biomechanics of Prosthetic Laryngoplasty 35

Benjamin J. Ahern

7 Ablation of the Cricoarytenoid Joint 43

Jan Hawkins

8 The Use of Partial Arytenoidectomy in the Management of Recurrent Laryngeal Neuropathy 49

Catherine H. Hackett

9 Evaluation and Management of the Horse Following Failed Laryngoplasty 53

Jan Hawkins

10 Evaluation and Management of the Horse with Dysphagia Following Prosthetic Laryngoplasty 57

Jan Hawkins

11 Treatment of Recurrent Laryngeal Neuropathy in Racehorses 61

Eric J. Parente

12 Treatment of Recurrent Laryngeal Neuropathy in Draft Horses 65  
Warren Beard

13 Evaluation and Treatment of the Horse with Fourth Branchial Arch Defects  
69  
Katherine Garrett

14 Future Developments in the Management and Treatment of Recurrent  
Laryngeal Neuropathy 77  
Jonathan Cheetham

15 Objective Evaluation Following Surgical Correction of Upper Airway  
Abnormalities 81  
Jonathan Cheetham

## **Section II Dorsal Displacement of the Soft Palate 87**

16 Dorsal Displacement of the Soft Palate: Pathophysiology and New  
Diagnostic Techniques 89  
Jonathan Cheetham

17 Dorsal Displacement of the Soft Palate: Standing and Dynamic Endoscopic  
Examination 97  
Elizabeth Davidson

18 Ultrasonography of the Horse with Suspected Dorsal Displacement of the  
Soft Palate 105  
Heather Chalmers

19 Sternothyroideus Myotectomy and Staphylectomy 109  
Jan Hawkins

20 Dorsal Displacement of the Soft Palate: Laryngeal Tie-Forward 115  
Norm G. Ducharme

21 Laser Palatoplasty 121  
Jan Hawkins

22 Surgical Management of Dorsal Displacement of the Soft Palate in the  
Racehorse 125  
Patricia Hogan

23 Dorsal Displacement of the Soft Palate: Evaluation of the Horse with Poor  
Performance Following Attempted Surgical Correction 131  
Norm G. Ducharme

24 Treatment of Persistent Dorsal Displacement of the Soft Palate 135  
Norm G. Ducharme

### **Section III Surgery of the Head 141**

25 Nasal Septum Removal 143  
David E. Freeman

26 Surgical Treatment of Horses with Wry Nose 157  
Jim Schumacher

27 Choanal Atresia 167  
Jan Hawkins

28 Frontonasal and Maxillary Sinusotomy Performed with the Horse Standing 171  
Jim Schumacher and Justin Perkins

29 Frontonasal and Maxillary Sinusotomy Performed Under General Anesthesia 177  
Warren Beard

30 Surgery of the Paranasal Sinuses: Surgical Removal of the Cheek Teeth and Management of Oro-sinus Fistulae 185  
Padraic M. Dixon

### **Section IV Surgery of the Soft Palate, Epiglottis, Arytenoid, and Trachea 193**

31 Surgical Repair of Cleft Palate 195  
Lloyd P. Tate, Jr

32 Surgical Correction of Epiglottic Entrapment 207  
Michael W. Ross and Jan Hawkins

33 Subepiglottic Cysts 223  
Eric J. Parente

34 Laser Resection of the Aryepiglottic Folds 227  
Eric J. Parente

35 Partial Arytenoidectomy with Mucosal Closure 231  
Eric J. Parente

36 Partial Arytenoidectomy without Mucosal Closure 237  
Jan Hawkins

37 Management of Guttural Pouch Tympanites 241  
Lloyd P. Tate, Jr

38 Treatment of Hemorrhage Associated with Guttural Pouch Mycosis 249  
Daniel F. Hogan

39 Surgical Management of Temporohyoid Osteoarthropathy 255  
Norm G. Ducharme, Thomas J. Divers, and Nita Irby

40 Surgery of the Trachea 261  
Lloyd P. Tate, Jr

41 Permanent Tracheostomy in the Horse 271  
Peter C. Rakestraw

Index 277