

Contents

Part I General

Introduction	3
Nico de Vries	
OSAS: The Magnitude of the Problem	7
Johan A. Verbraecken	
Compliance of Various Forms of Obstructive Sleep Apnea Treatment	39
Madeline Ravesloot	

Part II Initial Work Up: Polysomnography

Prevalence of Positional Obstructive Sleep Apnea in Patients Undergoing Polysomnography and the Effect of Sleep Stage	53
Mahesh Shetty and M. Jeffery Mador	
The Contribution of Head Position to the Apnea/Hypopnea Index in Patients with Position-Dependent Obstructive Sleep Apnea	65
Ellen R. van Kesteren and Anthony A.J. Hilgevoord	
Influence of Sleep Position on the Transition of Mild to Moderate and Severe OSA	81
Linda B.L. Benoist, Sharon Morong, and Nico de Vries	
Clinical Characteristics of Positional Obstructive Sleep Apnea Among Asians	85
Naricha Chirakalwasan	
Positional Therapy: Left Lateral Decubitus Position Versus Right Lateral Decubitus Position	95
Zhang Huankang, Huang Jingjing, Hou Xiaolin, J. Peter Van Maanen, and Xiao Kuanlin	

Part III Initial Work Up: Drug Induced Sleep Endoscopy

Drug-Induced Sleep Endoscopy and Sleep Position	107
Ioannis Koutsourelakis, Faiza Safiruddin, and Nico de Vries	
Changes in Site of Obstruction in Obstructive Sleep Apnea Patients According to Sleep Position	119
Tae-Bin Won, Chul Hee Lee, and Chae-Seo Rhee	

Part IV Initial Work Up: General

Towards a Clinical Classification System for Position-Dependent Obstructive Sleep Apnea	131
Madeline Ravesloot, Michaël H. Frank, J. Peter van Maanen, E.A. Verhagen, Jan de Lange, and Nico de Vries	
Correlation Between Calculated/Predicted and Actual AHI After Positional Therapy	137
Linda B.L. Benoist and Anneclaire V. Vroegop	

Part V Sleep Position in Specific Patient Groups

Influence of Sleep Position on Snoring.....	143
Linda B.L. Benoist, Sharon Morong, J. Peter van Maanen, Anthony A.J. Hilgevoord, and Nico de Vries	
The Effect of Body Position on Sleep Apnea in Children.....	151
Amal Isaiah and Kevin D. Pereira	
Sleep Position and Pregnancy	163
Sharon Morong, Brenda Hermesen, and Nico de Vries	
Positional OSA in Down Syndrome.....	175
Marjolein A.J. van Looij	
Positional OSA in the Morbidly Obese and the Effect of Weight Loss on OSA Severity	185
Sharon Morong, Linda B.L. Benoist, and Nico de Vries	
The Impact of Body Weight Changes on Body Posture Dominance in Adult Obstructive Sleep Apnea Patients	193
Arie Oksenberg, Aida Dynia, Khitam Nasser, Vlada Goizman, Edith Eitan, and Natan Gadoth	
Positional Central Sleep Apnea	209
Hennie Janssen, Johan A. Verbraecken, Dirk Pevernagie, and Sebastiaan Overeem	

Part VI Treatment of Positional OSA

History of Positional Therapy: Transition from Tennis Balls to New Devices	223
Madeline Ravesloot, Arjan van der Star, and Eline C. Vrijland van Beest	
Long-Term Results and Compliance of a Special Vest Preventing the Supine Position	237
Joachim T. Maurer	
Results of a First-Generation New Device for Positional Therapy	243
J. Peter van Maanen, Wietske Richard, Ellen R. van Kesteren, Madeline Ravesloot, D. Martin Laman, Antonius A.J. Hilgevoord, and Nico de Vries	
Short-Term (4 Weeks) Results of the Sleep Position Trainer for Positional Therapy	253
J. Peter van Maanen, Kristel A.W. Meester, Lideke N. Dun, Ioannis Koutsourelakis, Birgit I. Witte, D. Martin Laman, Antonius A.J. Hilgevoord, and Nico de Vries	
Long-Term (6 Months) Effectiveness, Compliance, and Subjective Sleep Outcomes of Treatment with the Sleep Position Trainer in a Large Cohort of Position-Dependent OSA Patients	265
J. Peter van Maanen, Arjan van der Star, and Nico de Vries	
10 Problems and Solutions for Positional Therapy: Technical Aspects of the Sleep Position Trainer	279
Eline C. Vrijland van Beest	
Prevalence and Effect of Supine-Dependent Obstructive Sleep Apnea on Oral Appliance Therapy	289
Marijke Dieltjens, Anneclaire V. Vroegop, Annelies E. Verbruggen, Marc Willemsen, Johan A. Verbraecken, Wilfried A. de Backer, Paul H. van de Heyning, Marc J. Braem, Nico de Vries, and Olivier M. Vanderveken	
Positional Therapy and Palatal Surgery	297
J. Peter van Maanen, Birgit I. Witte, and Nico de Vries	
Positional Therapy and Tongue Base Surgery	311
J. Peter van Maanen, Madeline Ravesloot, and Nico de Vries	
Residual POSA After Maxillomandibular Advancement in Patients with Severe OSA	321
Linda B.L. Benoist, Maurits H.T. de Ruiter, Jan de Lange, and Nico de Vries	

Impact of Upper Airway Surgery on Positional Change During Sleep	331
Ji Ho Choi and Seung Hoon Lee	
Comparison of Positional Therapy to CPAP in Patients with Positional Obstructive Sleep Apnea	343
Samuel Krachman, Irene Swift, and Maria Elena Vega	
Part VII Future Developments	
Position Training: An Indispensable Therapy	355
Piet-Heijn J.M. van Mechelen	
Positional Therapy, Consequences for and Implementation in OSA Guidelines.....	365
Nico de Vries and Madeline Ravesloot	
Position-Dependent Sleep Apnea: Implications for Diagnosis and Management.....	371
Matt T. Bianchi	
Positional Therapy in Obstructive Sleep Apnea: For Whom and for Whom Not.....	383
Natan Gadoth and Arie Oksenberg	
Summary and Future Perspectives.....	395
Nico de Vries, Madeline Ravesloot, and J. Peter van Maanen	
Index.....	401

Positional Therapy in Obstructive Sleep Apnea

de Vries, N.; Ravesloot, M.; van Maanen, J.P. (Eds.)

2015, XII, 414 p. 74 illus., 36 illus. in color., Hardcover

ISBN: 978-3-319-09625-4