

CONTENTS

Authors list	V	Conclusion About the Pathophysiology of Sleep Bruxism.	20
Contents	VII	References	21
Preface.	XI		
<i>Gilles Lavigne</i>			
Preface.	XIV	CHAPTER 4	
<i>Christian Knelleesen</i>		Clinical Diagnosis of Bruxism	23
Foreword	XV	<i>Emmanuel d'Incau, Daniel Brocard,</i>	
Glossary	XVII	<i>Jean-François Lалуque</i>	
		Tools for Clinical Evaluation	23
		Test Validity of the Clinical Interview and the Clinical Examination	27
		Conclusion	28
		References	28
PART I			
Current Knowledge		CHAPTER 5	
About Bruxism	I	Differential Diagnosis and Polysomnography	31
		<i>Gilles Lavigne and Maria Clotilde Carra</i>	
CHAPTER 1		Differential Diagnosis	32
Bruxism	3	Tests Dealing with Sleep Bruxism	33
<i>Jean-François Lалуque</i>		References	34
Introduction	3		
Definitions	5	CHAPITRE 6	
Types of Bruxism.	6	Awake Bruxism	37
Epidemiology	6	<i>Sandro Palla</i>	
References	8	Awake Bruxism: Definition and Prevalence	37
		Muscular Contractions and Nonfunctional Dental Contacts During Wakefulness.	38
		Possible Consequences of Awake Tooth Clenching	39
		Management of Awake Bruxism	41
		Conclusion	42
		References	42
		CHAPTER 7	
		Sleep Bruxism	45
		<i>Maria Clotilde Carra and Gilles Lavigne</i>	
		Sleep Bruxism as a Sleep-Related Movement Disorder.	45
		Sleep Bruxism Assessment and Diagnosis	45
CHAPTER 2			
Etiologies	11		
<i>Jean-François Lалуque</i>			
References	14		
CHAPTER 3			
Pathophysiology of Sleep Bruxism	17		
<i>Edoardo Manfredi and Guido Maria Macaluso</i>			
Sleep Arousal and its Rhythm	17		
Autonomic Activity Preceding RMMA	18		
Neurotransmitters	18		
Sleep Bruxism and Respiratory Disturbances During Sleep	19		
Airway Patency and Oropharyngeal Lubrication	20		

CONTENTS

Sleep Bruxism Epidemiology	47	CHAPTER 11	
Sleep Bruxism Occurrence	47	Dental Wear and Bruxism	81
Sleep Bruxism and Sleep Quality	49	<i>Emmanuel d'Incau</i>	
Etiology of Sleep Bruxism	50	The Different Kinds of Wear Patterns.	81
Sleep Bruxism and Comorbidities.	51	Connection Between Dental Wear	
Take-Home Message.	52	and Bruxism.	92
References	52	Conclusion.	97
		References	97
CHAPTER 8			
Sleep and Pain	57	PART II	
<i>Antoon De Laat</i>		Management of Bruxism.	101
Introduction	57		
Interaction Between Sleep and Pain	57	CHAPTER 12	
Common Neurobiologic Factors in Sleep		Advice and Counseling	
and Pain	59	for Management.	103
Therapeutic Aspects	59	<i>Jean-François Lалуque and Maria del Carmen Martinez</i>	
Conclusion	59	References	105
References	60		
		CHAPTER 13	
CHAPTER 9		Pharmacology and Bruxism	107
Bruxism in Children and Adolescents	63	<i>Ephraim Winocur</i>	
<i>Paul Saulue and Maria Clotilde Carra</i>		References	111
Introduction	63		
Epidemiology	63	CHAPTER 14	
Etiologic Factors and Associated Factors	65	Oral Appliances	113
Comorbidities	66	<i>Daniel Brocard, Jean-François Lалуque,</i>	
Wear and Differential Diagnosis	67	<i>Emmanuel d'Incau</i>	
Diagnosis	67	Occlusal Splints	113
Therapeutic Options.	69	References	119
Conclusion	70		
References	70	CHAPTER 15	
		Bruxism and Restorative Dentistry	121
CHAPTER 10		<i>Jean-François Lалуque, Emmanuel d'Incau,</i>	
Bruxism and Temporomandibular		<i>Daniel Brocard</i>	
Disorders.	73	References	123
<i>Daniele Manfredini and Frank Lobbezoo</i>			
The Literature	73	CHAPTER 16	
Shortcomings and the Recommendations		Ultraconservative Rehabilitation	
for the Future.	75	of Patients Displaying Severe Tooth	
Derived Clinical Implications: Are Bruxism		Wear	125
Activities Causes of TMJ and Masticatory		<i>Alain Vanheusden and Frédéric Raux</i>	
Muscle Overload?	76	Introduction.	125
Conclusions: The Triangle of Bruxism, Pain,			
and Psychosocial Factors	77		
References	77		

The Three-Step Approach Principle 125
 Confirming the Increase of VDO 127
 Prosthetic Treatment of Posterior Teeth by
 Indirect Bonded Restorations 131
 Conclusion 132
 References 132

CHAPTER 17

**Extended Bonded Restorative
 Dentistry** 133
Louis Toussaint
 Case Report Introduction 133
 Prosthetic Diagnosis 134
 Esthetic Analysis 134
 Esthetic Diagnosis 136
 Esthetic Treatment Plan 136
 Confirmation of the Esthetic Outcome
 and Treatment Plan by the Patient, Practitioner,
 and Laboratory Technician 138
 Conclusion 140
 References 141

CHAPTER 18

Bruxism and Implant Restorations.... 143
Daniel Brocard
 References 147

CHAPTER 19

Follow-up and Maintenance..... 149
Jean-François Lалуque and Emmanuel d'Incau
 References 151

CHAPTER 20

Conclusions and Perspectives 153
Sandro Palla
 Awake Bruxism vs Sleep Bruxism 153
 Bruxism and Occlusion 154
 Toward a Paradigm Shift? 154
 Dentistry and Dogmas 155
 Bruxism, an Opportunity 155
 References 156