

Contents

Foreword	vi	Analgesic Therapy in Dental Practice	55
Preface	vii	Norman Moser, Philipp Kauffmann, Nils Lohse,	
Authors	ix	Matthias Tröltzsch, Markus Tröltzsch	
Contents	xiv		
1 BASICS	1	Recommendations for the Target-Oriented and Reasonable Use of Pharmaceuticals in the Dental Office	60
Anatomical Basics	3	Markus Tröltzsch, Nils Lohse, Anna Rau,	
Markus Tröltzsch, Philipp Kauffmann,		Philipp Kauffmann, Volker Tröltzsch,	
Matthias Tröltzsch		Matthias Tröltzsch	
Bone and Skeletal System: Anatomy, Histology, Physiology, and Pathophysiology	23	Drugs Relevant to Dentistry and Their Interaction with Frequently Prescribed Drugs	69
Matthias Tröltzsch, Michael Eichhorn,		Sebastian Müller, Sophia Goldschmidt,	
Florian Andreas Probst, Karl Meßlinger,		Luise Mortag, Matthias Tröltzsch,	
Sven Otto, Markus Tröltzsch		Markus Tröltzsch	
Pain and Wound Healing	32	Medication-Associated Osteonecrosis of the Jaw	77
Markus Tröltzsch, Karl Meßlinger		Sven Otto, Matthias Tröltzsch, Oliver Ristow,	
 		Christoph Pautke	
Laboratory Examination: Which Values Are Important for the Dentist?	39	The Role of New Antiresorptives, Neoangiogenesis Inhibitors, and Immunomodulators in the Development of Osteonecrosis of the Jaw	85
Markus Tröltzsch, Matthias Tröltzsch		Matthias Tröltzsch, Christoph Pache,	
 		Sven Otto, Markus Tröltzsch	
2 PHARMACOLOGY	43	Coagulation and Anticoagulants	90
Basics of Pharmacology	45	Philipp Kauffmann	
Matthias Tröltzsch		 	
Antibiotic Therapy in Dental Practice	49	Cause and Therapy of Hemorrhage	99
Markus Tröltzsch, Rudolf Gruber,		Philipp Kauffmann, Markus Tröltzsch	
Norman Moser, Matthias Tröltzsch			

Management of the Anticoagulated Patient During Dentoalveolar Surgery	103	Diabetes Mellitus and Dentistry	148
Philipp Kauffmann, Markus Tröltzsch		Sonja Henny Maria Derman, Anna Greta Barbe, Michael Johannes Noack	
The Immunocompromised Patient in the Dental Practice	110	Dental treatment of patients with chronic renal insufficiency	158
Philipp Brockmeyer		Jan Alexander Klenke, Markus Tröltzsch, Radovan Vasko	
3 COMMON MEDICAL CONDITIONS RELEVANT IN DENTISTRY	115	Metabolic bone diseases and osteoporosis	171
The medical importance of dentistry	117	Matthias Tröltzsch, Stefanie Kriegelstein, Ursula Hanf, Markus Tröltzsch	
Markus Tröltzsch, Philipp Kauffmann, Luise Mortag, Patricia Tröltzsch, Matthias Tröltzsch		Lung infection: Basic pulmonary physiology and pathophysiology and the diagnosis and therapy of pneumonia	178
Medical Diagnostics in Dental Practice	122	Matthias Tröltzsch, Markus Tröltzsch, Stefanie Kriegelstein	
Markus Tröltzsch, Matthias Tröltzsch, Philipp Kauffmann		Chronic obstructive pulmonary disease (COPD)	185
Coronary Heart Disease	129	Markus Tröltzsch	
Ruben Evertz, Stephan von Haehling		Asthma management	188
Cerebrovascular events—Epidemiology, symptoms, etiology, diagnosis, prognosis, and prophylaxis	133	Henry Worth	
Jan Samuel Schenkel, Sven Schippling, Claudio Rostetter		The pregnant patient	193
Venous thrombosis	141	Markus Tröltzsch	
Ruben Evertz, Stephan von Haehling		Sinusitis: Clinical presentation, diagnosis, and therapy	199
Endocarditis	144	Rainer Laskawi, Friedrich Ihler	
Ruben Evertz, Stephan von Haehling		Inflammatory diseases of the ear	203
		Friedrich Ihler, Rainer Laskawi	

Salivary Gland Diseases	209	Dementia: Epidemiology, manifestations, diagnosis, therapy, and prognosis	311
Robert Cordesmeyer		Jan Samuel Schenkel, Irene Bopp-Kistler, Claudio Rostetter	
Colorectal and bronchial cancer	218	Multiple sclerosis: A chronic degenerative disease of the central nervous system	319
Karin Hohloch		Claudio Rostetter, Jan Samuel Schenkel	
Breast Cancer (Mammary Carcinoma)	229	Parkinson disease	326
Karin Hohloch		Claudio Rostetter, Günther Eisele, Sven Schippling, Jan Schenkel	
Neoplasms of the Blood	236	Sleep-related breathing disorders and dentistry: Where is the connection?	334
Karin Hohloch		Petra Maria Santander Martínez, Norman Moser	
Prostate cancer—The most common malignant neoplasm in men	248	Standardized examination and special diagnostic procedures in oral medicine	339
Matthias Tröltzsch, Markus Tröltzsch, Stefanie Kriegelstein		Michael M. Bornstein, Valérie G. A. Suter	
Allergic reactions and their significance in dental practice	254	Oral cancer	356
Matthias Tröltzsch, Markus Tröltzsch		Philipp Kauffmann, Markus Tröltzsch, Matthias Tröltzsch, Katharina Kauffmann, Nils Lohse, Robert Cordesmeyer	
Headache in dental practice: An introduction	260	Odontogenic infections Part 1: Pathology	362
Markus Tröltzsch, Matthias Tröltzsch		Markus Tröltzsch, Philipp Kauffmann, Norman Moser, Matthias Tröltzsch	
Headache and facial pain	265	Odontogenic infections Part 2: Diagnostics and therapy	367
Charly Gaul		Markus Tröltzsch, Nils Lohse, Thiha Aung, Petra Santander, Matthias Tröltzsch	
Emergency medical care in the dental practice	274	Odontogenic infections Part 3: Complications and differential diagnoses	374
Tomas Aydin, Anna Rau, Christian Rau, Daniel Stein		Markus Tröltzsch, Alexander Klenke, Florian Böhrnsen, Sinan Sag, Matthias Tröltzsch	
Sedation and anesthesia	283		
Anna Rau, Christian Rau, Tomas Aydin, Sebastian G. Russo			
Managing multimorbid patients in the dental practice	291		
Jan Alexander Klenke, Dietrich Friesen, David Raschke			

Imagined ugliness: Body dysmorphic disorder	382	Dentistry and ophthalmology	421
Ines Kollei, Alexandra Martin		Nicolas Feltgen	
Basics of traumatology, fracture healing, and principles of osteosynthesis	390	"There is a cost to caring:" Prevention of burnout for the practice team	427
Matthias Tröltzsch, Stefanie Kriegelstein, Florian Andreas Probst, Markus Tröltzsch, Sven Otto, Michael Ehrenfeld		Deike Böning	
4 MEDICAL KNOWLEDGE FOR THE DENTAL TEAM	401	Burnout in dentists: A literature review	431
Prevention and early detection of malignant diseases	403	Carolin Isabell Wissel, Hans-Peter Jöhren	
Robert Cordesmeyer		The back: Classic problem area for the dentist	439
Hygiene in practice and surgery	408	Christoff Reichelt, Markus Tröltzsch	
Andreas Schwarzkopf		Dupuytren disease—When the fingers no longer cooperate	445
The needlestick injury in practice: An almost everyday problem	417	Stefanie Kriegelstein, Frank Unglaub	
Matthias Tröltzsch, Stefanie Kriegelstein, Markus Tröltzsch		Disease transmission and risk of infection in dental practice using SARS-CoV-2 (COVID-19) as a particular example	450
		Markus Tröltzsch, Philipp Kauffmann, Luise Mortag, Matthias Tröltzsch	
		5 APPENDIX	459