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Disorders of Temporomandibular Joint (including capsulitis of TMJ, degenerative arthritis, internal derangement, dislocation, myofascial pain, ankyloses, headache, sleep disorders, trigeminal neuralgia, Cranio-maxillofacial trauma, and other related TMJ diseases) are some of the leading causes of chronic pain. The serious personal consequences of severe, constant facial, head and neck pain from these disorders make these problems a major social issue. One of the greatest challenges facing health care systems internationally is meeting the health needs of their populations with the available resources especially for In-patient. This study explored the association of temporomandibular joint complexity with socio-demographic variables, multidisciplinary management of the TMD during patient hospitalization and selected co-morbidities characteristics based on the 2003 to 2010 nationwide inpatient sample (NIS) of the health care cost and utilization project (HCUP) provided by the agency for health care research and quality (AHRQ) data for TMD In-patients between 2 and 97 years old. There is a strong positive correlation between temporomandibular disorders and hypertension and a weaker but nonetheless positive correlation between temporomandibular disorders and diabetes, temporomandibular disorders and depression, and temporomandibular disorders and weight. The finding of this study support the hypotheses that Socio-demographic factors (age, race, disposition of patient, primary expected payer, patient location, gender, source, length of stay, and median income) affect incidence of TMD and hospital stays, Comorbidities exist that are significantly related to TMD incidence and hospitalization costs. Results of eight years nationwide epidemiological estimates of hospitalizations attributed to temporomandibular joint disorders in the United States demonstrate changes in socio-demonstrate and hospital related factors. Also eight-year trend analysis of hospitalizations for temporomandibular disorders showed that mean length of stay between (3.06 - 3.25) while per year charge increased. This book is a comprehensive, state of the art guide to the contemporary surgical treatment of temporomandibular disorders (TMDs) that will help to compensate for the frequent lack of experience and inadequate training among health professionals who encounter patients with jaw joint problems. The opening section discusses the evolution of modern surgical management of TMDs, TMD diagnosis for surgical candidates, as well as anatomic pathways. Surgical procedures are then described and illustrated, with detailed coverage of total temporomandibular joint replacement and also other procedures such as surgical arthroscopy, intraoral vertical ramus osteotomy, discectomy, and arthroplasty. The volume closes by examining the future of the field, including the use of bioengineered constructs. Complementary volumes are devoted to anatomy, pathophysiology, evaluation, and diagnosis and to the nonsurgical treatment of TMDs, respectively. Each volume will be of high value for the multidisciplinary team necessary for successful management of TMDs, including dentists, surgeons, primary care doctors, pain doctors, and allied health professionals. This book has been written to help people suffering from pain caused by "temporomandibular disorders," a series of conditions that mainly involve the temporomandibular joints (abbreviated TMJs), which are the joints of the mandible, and the muscles of mastication. Such disorders cause a symptomatology often spreading to the jaw, to the head causing headaches, to the shoulders, neck and back. The mechanisms through which pain origins and persists, as well as factors affecting pain intensity and duration are shown, it is also indicated what changes we can make to our lifestyle to allow our body to function properly and reduce discomfort. Factors like dental occlusion, posture, bruxism (the habit of clenching and grinding the teeth), nutrition, breathing and psychological factors are examined, with information on the medications typically used for such pathologies. Temporomandibular disorders (TMDs), are a set of more than 30 health disorders associated with both the temporomandibular joints and the muscles and tissues of the jaw. TMDs have a range of causes and often co-occur with a number of overlapping medical conditions, including headaches, fibromyalgia, back pain and irritable bowel syndrome. TMDs can be transient or long-lasting and may be associated with problems that range from an occasional click of the jaw to severe chronic pain involving the entire orofacial region. Everyday activities, including eating and talking, are often difficult for people with TMDs, and many of them suffer with severe chronic pain due to this condition. Common social activities that most people take for granted, such as smiling, laughing, and kissing, can become unbearable. This dysfunction and pain, and its associated suffering, take a terrible toll on affected individuals, their families, and their friends. Individuals with TMDs often feel stigmatized and invalidated in their experiences by their family, friends, and, often, the health care community. Misjudgments and a failure to understand the nature and depths of TMDs can have severe consequences - more pain and more suffering - for individuals, their families and our society. Temporomandibular Disorders: Priorities for Research and Care calls on a number of stakeholders - across medicine, dentistry, and other fields - to improve the health and well-being of individuals with a TMD. This report addresses the current state of knowledge regarding TMD research, education and training, safety and efficacy of clinical treatments of TMDs, and burden and costs associated with TMDs. The recommendations of Temporomandibular Disorders focus on the actions that many organizations and agencies should take to improve TMD research and care and improve the overall health and well-being of individuals with a TMD. An authoritative overview of this complex subspecialty of dentistry and oral surgery. Expert contributors provide scientifically sound coverage of diagnostic and treatment regimens in these difficult patients. This multidisciplinary textbook presents a unique approach to diagnosis and management of the various temporomandibular disorders. Written by a large group of eminent researchers and clinicians, it links current scientific concepts of basic anatomy, physiology, biomechanics, and pathology of the temporomandibular joint with specific diagnostic and treatment protocols that are based on sound clinical data. Thus, in keeping with the current thrust in medicine and dentistry, the book provides access to the best available evidence so that clinicians can make informed rather than empirical decisions about what is appropriate therapy. Where lack of data or rapid changes in a particular discipline do not allow for evidence-based conclusions or recommendations, the book highlights the areas of agreement and disagreement in order to expose the deficiencies in our present knowledge base. In a field of treatment long associated with controversy, this book educates readers about which current

practices of diagnosis and treatment are strongly supported by scientific research and which are supported only by practical experience and/or anecdotal evidence. This issue of Oral and Maxillofacial Surgery Clinics of North America focuses on Current Controversies in the Management of Temporomandibular Disorders, and is edited by Drs. Daniel Laskin and Shravan Kumar Renapurkar. Articles will include: The role of imaging in diagnosis of TMJ pathology; The use of synovial fluid analysis for diagnosis of TMJ disorders; The use of occlusal equilibration in the treatment of TMDs; The use of occlusal appliances in the management of TMDs; The efficacy of pharmacologic treatment of TMDs; The use of Botox to treat myofascial pain; Surgical versus non-surgical management of degenerative joint disease; Orthodontics as a treatment for TMD; Orthognathic surgery as a treatment for TMD; Arthroscopy versus arthrocentesis for treating internal derangements; Discectomy versus discoplasty for treating internal derangements; Costochondral graft versus total alloplastic joint for TMJ reconstruction; Injectable agents versus surgery for recurrent TMJ dislocation; Combined or staged TMJ and Orthognathic surgery for patients with internal derangement and a skeletal disharmony; Treatment for idiopathic condylar resorption: Orthognathic surgery versus total TMJ replacement; The role of stress in the etiology of oral parafunction and myofascial pain; and more! This book acquaints the reader with the basic science principles needed in order to understand temporomandibular disorders (TMDs) with a view to helping practitioners manage individuals with TMDs in accordance with the tenets of evidence-based dental medicine. The opening chapters provide essential information on the embryology, anatomy, and physiology of the masticatory system, which includes both myogenous and arthrogeous anatomic structures. Using this knowledge as a foundation, the reader will be better prepared to grasp the function and, ultimately, the dysfunction of masticatory muscles and the temporomandibular joint, both of which are addressed in detail. The book's final section is exclusively devoted to management principles and includes a chapter on psychosocial considerations. By following a translational approach to evidence-based practice measures, as outlined in this book, the clinician will be excellently positioned to choose appropriate interventions on a case-specific basis. Covering both emerging and proven techniques in this dynamic area of oral health, Management of Temporomandibular Disorders and Occlusion, 8th Edition is the only textbook that guides you from basic anatomy and function to providing solutions to many common occlusal and TMD problems. Clear descriptions and a new full-color design promote a complete understanding of normal, abnormal, and dysfunctional occlusal relationships and masticatory function and dysfunction. A recognized industry-standard, this book's conservative, cost-effective approach, helps you learn how to achieve treatment goals while keeping the best interests of your patients in mind. Globally recognize TMD expert author Jeff Okeson details the most current and effective solutions around. Evidence-Based Practice focus helps you to put the information and techniques in this book into practice to better the lives and relieve the suffering of your patients. Logical organization of content includes functional anatomy, etiology and identification of disturbances, treatment of disturbances, and occlusal therapy. Full-color design provides more vivid clinical photos and illustrations. Robust Art Program allows you to fully understand normal occlusion and masticatory function and learn to recognize and help manage abnormalities in these areas. Clinical Comment boxes give you critical thinking points and instructions on how to apply these to everyday clinical practice. NEW! Updated content includes enhanced research evidence. NEW! Clinical Photo Updates in Examination Chapter differentiate and strengthen images from the current edition. NEW! Addition of Expert Consult Site furthers your understanding of treatment goals and outcomes. Temporomandibular Disorders, also known as TMJ, are a group of conditions that affect the temporomandibular joint, which is the hinge that connects the lower jaw (mandible) to the skull. The temporomandibular joint is responsible for movements such as opening and closing the mouth, chewing, and speaking. TMJ disorders can cause pain in the jaw joint and muscles, clicking or popping noises when opening the mouth, and problems with biting or chewing. The most common type of TMJ disorder is Temporomandibular Joint Disorder (TMD), which is a catch-all term used to describe any condition that affects the temporomandibular joint. TMD can be caused by several factors, including tooth, grinding (bruxism), trauma to the jaw joint, arthritis, and dislocation of the jaw. Other less common TMJ disorders include Myofascial Pain Syndrome, which is a pain in the muscles surrounding the temporomandibular joint, and Craniomandibular Disorders (CMD), which are disorders that affect both the jaw joint and muscles. If you are experiencing pain or other symptoms in your jaw joint, it is important to see a doctor for diagnosis and treatment. Treatment for TMJ disorders may include medications such as painkillers or anti-inflammatory drugs, physical therapy, braces or splints to keep the teeth in alignment, and surgery. With proper diagnosis and treatment, most people with TMJ disorders can find relief from their symptoms and resume normal activities. The following are some of the subtopics that will be discussed in further depth throughout this guide: What is the temporomandibular joint (TMJ)? What causes TMJ disorders? What are the symptoms of TMJ disorders? Who is at risk of TMJ disorders? What women should know about TMJ disorders? How are TMJ disorders diagnosed? What are the treatments for TMJ disorders? Managing TMJ disorders symptoms through natural remedies. Managing TMJ disorders symptoms through diet. Read on if you want to learn more about TMJ disorders, their causes, symptoms, and treatment options. Notwithstanding, difficulties in making a differential diagnosis with other orofacial pain, and in identifying those subjects at risk of chronic pains, are still present, and, importantly, it seems that the view of TMD as occlusion-related is hard to eradicate from the primary practitioner community. -- This evidence-based book, featuring contributions from world-renowned experts, discusses in detail the functional anatomy of the temporomandibular joint as well as the aetiology, diagnosis, treatment and medicolegal implications of patients with temporomandibular disorders (TMD). Despite advances in our understanding of the aetiology of TMD and in developing current treatment rationales, a number of issues remain controversial. These include the extent to which the temporomandibular joint should be a central focus of orthodontic diagnosis and treatment, as well as the role that occlusion and malocclusion play in precipitating TMD symptoms. Indeed, few subjects in dentistry and the specialty of orthodontics are open to as many interpretations or misinterpretations as TMD. This textbook provides clinical orthodontists with essential information and guidance that will assist them in understanding and effectively managing this complex multilayered problem. Throughout, clear clinical guidelines are presented on the basis of current scientific and clinical evidence. TMD and Orthodontics will be a highly valuable chairside resource for orthodontists everywhere. Fully updated with the latest information in the field, this comprehensive book provides a practical guide to diagnosing and managing temporomandibular disorders in the dental practice. Written in an accessible, user-friendly style, it offers a simplified approach to the basic concepts and management decision points for the most commonly observed temporomandibular conditions, integrating the latest advances and advice throughout. Quick Consult, Focal Point, and Technical Tip boxes provide quick access to relevant information, and study results are summarized in graphs for ease of comprehension. Manual of Temporomandibular Disorders, Fourth Edition examines an array of medical and dental conditions that affect the temporomandibular joint (TMJ), masticatory muscles, and contiguous structures. It presents evidence-based, clinically practical information to help dentists diagnose TMD accurately, rule out disorders that mimic TMD, and provide effective therapy for most patients. Special features include: Frequently Asked Questions Quick Consults, Technical Tips, and Focal Points Information on disorders that mimic TMD and factors that warrant referral Extensive color photographs and line drawings A companion website providing helpful examples and patient handouts Manual of Temporomandibular Disorders, Fourth Edition is a must-have how-to manual for general dentists, dental students, and residents involved in this area of practice. Manual of Temporomandibular Disorders is a four-color, softcover handbook of information on temporomandibular disorders, an array of medical and dental conditions that affect the temporomandibular joint (TMJ), masticatory muscles, and contiguous structures. The book will provide evidence-based, clinically practical information that allows dentists to diagnose TMD accurately, rule out disorders that mimic TMD (that is, make a differential diagnosis), and provide effective therapy for most patients. This title offers comprehensive coverage in a compact package. The book's tone is conversational, with a focus on solving TMD problems at chairside. The author's crisp, engaging writing style allows the clinician to find precise answers quickly, without wading through a morass of detail. "Covering both new and proven techniques in this rapidly changing field, this best-selling book helps you provide solutions to many common occlusal and TMD problems. Clear descriptions ensure that you develop a complete understanding of normal occlusion and masticatory function, allowing you to better appreciate and manage abnormal occlusion and masticatory dysfunction. With this book's conservative, cost-effective approach, you'll achieve your treatment goals while keeping the best interests of your patients in mind."--BOOK JACKET. This book covers some biostatistical methods and several case studies useful to interpret and analyze dental research in the areas of orofacial pain and temporomandibular disorders. It will guide practitioners in these fields who would like to interpret research findings or find examples on the design of clinical investigations. After an introduction dealing with

the basic issues, the central sections of the textbook are dedicated to the different types of investigations in sight of specific goals researchers may have. The final section contains a recent approach based on nonparametric permutation tests which can be adopted in many practical situations. The field of orofacial pain and temporomandibular disorders is emerging as one of the most critical areas of clinical research in dentistry. Due to the complexity of clinical pictures, the multifactorial etiology, and the importance of psychosocial factors in all aspects of the TMD practice, clinicians often find it hard to appraise their modus operandi, and researchers must constantly increase their knowledge in epidemiology and medical statistics. Indeed, proper methodological designs are fundamental to reaching high levels of internal and external validity of findings in this specific area. This book is designed to provide a crisp and necessary information for all the under-graduate and post-graduate medical students, Oral and Maxillofacial Surgeons, ENT Surgeons, General Surgeons, General Dentists and other health care workers who deal with TMDs in their practise. It includes contributions from eminent surgeons across the world who treat TMJ disorders and diseases using various conventional to modern state of the art techniques. Temporomandibular joint disorders (TMDs) are familiar yet difficult to diagnose in routine practice due to the complexity of the joint and its surrounding structures. The symptoms usually associated with TMDs present with pain, joint sounds such as click or crepitus, difficulty during mastication, reduced mouth opening are some of the many presentations. Definite diagnosis of the TMDs can be challenging as the patients present with varying symptoms. These disorders of the joint can vary from a simple disc displacement to complex pathologies. Management of the TMDs can be tricky and hence need a thorough evaluation of the joint and surrounding structures. There has been a tremendous leap in managing these disorders from simple conservative management to several advanced surgeries to salvage the joint. This compilation highlights all the relevant details regarding TMDs and its management which will offer utmost details to practising surgeons who often deal with TMDs. This book will be a delight to read for all the clinicians and surgeons who are interested in treating the small yet complex jaw joint in the facial region. The masticatory system is a functional unit of the body primarily responsible for chewing, speaking and swallowing. The system is made up of with bones, joints, ligaments, teeth and muscles. The masticatory system is a complex and highly refined unit. The area where the cranio-mandibular articulation occurs is called the temporomandibular joint. It provides for hinging movement in one plane and is therefore called as ginglymoid joint. However at the same time it also provides for gliding movement which classified it as arthroidal joint. Thus, it is technically considered as ginglymoarthroidal joint. Temporomandibular disorders are Conditions producing abnormal, incomplete, or impaired function of the temporomandibular joint(s). A bunch of symptoms frequently observed in various combinations which includes headache in the vertex and occipital region, tinnitus, pain in the ear, impaired hearing and pain in the tongue-acronym TMD. Number of treatments for T.M. joint disorders have been advocated, none are effective for every patient every time. Effective treatment begins with a understanding of the disorder and its etiology. A valuable resource on how to diagnose and treat temporomandibular disorders (TMD) The newly and thoroughly revised 2nd Edition of Temporomandibular Disorders: A Problem-Based Approach delivers a systematic and logical approach to diagnosing and treating temporomandibular disorders. Using a case-based approach to assist readers with understanding and retention, the book discusses the practical realities of managing patients and promoting effective treatment of temporomandibular disorders. Containing full colour clinical images and diagrams throughout, the chapters include practical guides on how to make splints and samples of patient information sheets which can be used as templates. Readers will get access to topics such as: The clinical aspects of anatomy, function, pathology, and classification Differential diagnosis of temporomandibular joint problems Clicking joint problems and the use of preliminary investigation in disc displacement Temporomandibular joint locking diagnosis and treatment, including final treatment plans Facial pain examinations, differential diagnosis, and questions to ask patients regarding pain in general Headaches, worn teeth, dislocated jaws, and more issues that arise in the treatment of temporomandibular joint problems Perfect for undergraduate dental students and general dental practitioners, the new edition of Temporomandibular Disorders is also useful to postgraduate dental students, academics, and researchers. This book is a comprehensive, state of the art guide to the contemporary diagnosis of temporomandibular disorders (TMDs) that will help to compensate for the frequent lack of experience and inadequate training among health professionals who encounter patients with jaw joint problems. The opening section describes the whole patient philosophy essential for treatment success, examines ethical and legal considerations, and discusses all aspects of anatomy. Pathophysiology, clinical assessment, and imaging evaluation, including by means of modern MR imaging and CBCT, are then considered in detail. Finally, the diagnostic criteria for the full range of TMDs are thoroughly explained and the urgent need to appreciate temporomandibular disorders as the chronic pain conditions they are is addressed. Complementary volumes are devoted to non-surgical treatment of TMDs and to total temporomandibular joint replacement and other surgical procedures, respectively. Each book will be of high value for the multidisciplinary team necessary for successful management of TMDs, including dentists, surgeons, primary care doctors, pain doctors, and allied health professionals. The treatment of temporomandibular disorders requires a multidisciplinary approach, involving the participation of dentists, oral and maxillofacial surgeons, radiologists, and others. This lavishly illustrated text/atlas provides a wealth of valuable information for specialists who need to enhance their understanding of TMJ disorders. TMJ Disorders and Orofacial Pain is the invaluable diagnostic guide all dentists and related specialists need to provide optimize the care and treatment of patients in this condition. It ties together the anatomic, physiologic, and psychological aspects of TMJ to help you confidently reach an accurate diagnosis. MRI has proven to be the most reliable imaging modality for the diagnosis of TMJ disorders. A key benefit of this text is teaching dentists how to interpret MRIs, and also to provide the required knowledge for informed communication with radiologists. Throughout the text, you'll find exquisitely detailed, full-color photographs which take you step-by-step through the clinical examination of the jaw. The book teaches you how to analyze information as it comes in to select the proper course of treatment based on the patient's history and clinical data. Written in a clear and easy-to-follow format, the text presents state-of-the-art approaches to managing TMJ disorders. With this book, dentists and related specialists will gain the essential skills and knowledge needed to ensure their patients receive the best possible care! Surgery for the Internal Derangement of the TMJ is explored in this important issue in the Oral and Maxillofacial Surgery Clinics. Articles will include: Condylectomies in condylar hyperplasia of the TMJ: Are they necessary?; Acute and chronic dislocation of the temporomandibular joint: What options do we have?; Ankylosis of the temporomandibular joint: How do we treat it?; Adjunct medical management for temporomandibular joint disorders: Where are we going?; Orthognathic surgery in the TMD patient: What happens later?; Missing temporomandibular joint congenital conditions: when do we operate?; Articular disc repositioning of the TMJ: does it really work?; Idiopathic condylar resorption of the temporomandibular joint: How do we stop it?; TMJ surgical complications; Connective tissue autoimmune disease: How does it affect the TMJ and where are we going?; and more. A text for dentists and dental students, arranged in four sections: basic science background information for diagnosis and clinical management; descriptions of pathological conditions and examination procedures; a review of treatment modalities; and a discussion of orofacial pain of nonmasticatory origin, including headache as seen through the eyes of a neurologist. Annotation copyright by Book News, Inc., Portland, OR Specialty Imaging: Temporomandibular Joint offers expert insight into modern imaging of the temporomandibular joint by employing a multifaceted, multispecialty viewpoint of this difficult to understand joint. Image-rich content combines with easy-to-read text, bringing together the clinical perspectives and imaging expertise of today's research specialists. Includes extensive, in-depth explanations of the underlying mechanisms of normal vs. abnormal temporomandibular joints and how those present on radiographic imaging. Provides coverage of hot topics such as understanding the temporomandibular joint through biomechanical engineering, structure/function of the temporomandibular joint in normal and pathologic joints, and clinicoradiological correlation of temporomandibular joint findings. Details anatomic and functional interrelationships in conjunction with radiology. This book on the local and systemic manifestations and correlates of temporomandibular joint disorders (TMDs) encompasses the two intertwined facets of translational science - translational research and translational effectiveness - as they relate specifically to TMDs. The first part of the book, on recent translational research, focuses on topics such as the neuroanatomy and neurophysiology of the trigeminal nerve and trigeminal network system, the manifestations of neuroinflammation in TMDs, and the molecular mechanisms underlying TMDs. The second part discusses the clinical effectiveness of treatment approaches from the perspective of evidence-based dentistry, with careful attention to the critical relationships between dental malocclusions, the signs and symptoms of TMDs, and airway/breathing disorders. Interventions to correct for malocclusal conditions that lead to TMDs are examined, with explanation of the ways in which they can ameliorate a variety of local and systemic symptoms. This will be an excellent

reference book for established practitioners, residents, interns, and students as well as a powerful cutting-edge document for researchers in the field. A quick, systematic and logical approach to diagnosing and treating temporomandibular disorders (TMD), this latest book in the Dental Update series is an essential clinical companion for dental students and practising dentists. Starting with an overview of the basic principles of TMD, such as the anatomy of the temporomandibular joint and its physiology and pathology in relation to clinical treatment, the book goes on to present the realities of managing patients, using a case-based approach to help readers understand and engage with the information. Each later chapter presents a different problem in the form of a case study, and each study features a systematic approach to aid learning. Temporomandibular Disorders: A Problem-Based Approach promotes learning as a dynamic process of active involvement. It encourages valuation by self-assessment with questions at the end of the book, and a unique link to an online interactive quiz where readers can test their knowledge of TMD. The final chapters include practical guides of how to make splints and samples of patient information sheets that can be used as templates. The book is illustrated in full colour, with helpful clinical images and diagrams. KEY FEATURES Uses a case-based approach to promote effective management of TMD Covers basic scientific background as well as clinical scenarios Addresses not only 'why' but also 'how' with a highly practical focus Includes a unique link to an online interactive quiz (visit www.wiley.com/go/gray) Contains many full colour clinical images and diagrams A revised and reorganized edition of this text with emphasis on a broader approach. Includes all disciplines that work with these disorders including: physical therapists; dentists; and manual therapists. It also contains new chapters on: diagnostic tests; radiology; arthroscopy; postsurgical PT protocols; continuous passive motion; and medical management. Comprehensive issue on TMJ disorders and orofacial pain which covers epidemiology and gender differences, peripheral and central mechanisms of pain, TMJ intracapsular disorders, myogenous TMD, bruxism, headache, neuropathic orofacial pain, surgical considerations, psychological factors and much more. Temporomandibular disorders (TMDs) have been recognized by the American Association of Dental Research (AADR) as a group of musculoskeletal conditions which involve the temporomandibular joint or joints, the masticatory muscles, or both. It can lead to difficulties in chewing or other oral functions, acute and/or chronic pain, absence from and impairment of work or social interactions, and overall reduction in the quality of life. Chewing ability is considered a patient's subjective response about chewing and his or her objective capacity to chew so it can be evaluated by questionnaires or personal interviews. Many epidemiological studies have been reported on signs and symptoms of masticatory dysfunction regarding: their prevalence, their frequency and severity. However, the influence of prosthetic appliances on the prevalence of TMD and on chewing efficiency is still unclear. Therefore, it would appear worthwhile to conduct this cross-sectional study to investigate these conditions and other relevant variables among Jordanian Subpopulation.

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