

CDS 631

Diagnosis and Management of Orofacial Pain

Course Director: Jeffrey P. Okeson, DMD

Course Description:

This course will present information regarding the diagnosis and management of Orofacial Pain and Temporomandibular Disorders. The course will consist of seminar presentations. The information provided in this course will allow the student to understand the dentist's role in managing complex orofacial pain problems. This course will provide information that will assist the clinician in the differential diagnosis of orofacial pain disorders. The management of many orofacial pain disorders will be discussed but temporomandibular disorders will be emphasized since the dentist plays a major role in managing these pain disorders.

Primary Education Goals:

The primary educational goal of this course is to provide:

1. An understanding of the basic mechanisms of normal and pathologic processes involving pain and dysfunction in the craniofacial area.
2. An understanding of how the field of TMD and orofacial pain relates to the various dental and other health sciences.
3. The ability to gather and analyze relevant data and formulate appropriate treatment plans for the management of TMD and orofacial pain.
4. An understanding of the social, structural, psychological, physiological, and pathological contributing factors associated with TMD and orofacial pain.
5. The ability to perform selected treatment procedures, using appropriate management criteria, on patients suffering from TMD and orofacial pain.
6. The ability to evaluate treatment and management outcomes in the care of patients suffering from TMD and orofacial pain.
7. An empathetic understanding of the problems and special needs of patients suffering from TMD and orofacial pain.

Special Behavioral Objectives:

Upon completion of this course the student will be able to accomplish the following:

1. Recognize the clinical characteristics of the various acute and chronic TM disorders including chronic pain behavior and phenomena associated with its central and peripheral effects.
2. Recognize and differentiate the clinical characteristics of various orofacial pain disorders including acute and chronic manifestations.
3. Gather a comprehensive medical, dental and psychosocial history and review of systems, and recognize from it the factors that may predispose, cause, or perpetuate TMD and orofacial pain.
4. Perform a thorough head, neck and intraoral examination appropriate for orofacial pain disorders.
5. Based on the collected data, understand inclusion and exclusion criterion for diagnosis, develop and document a differential diagnosis including the suspected causes and pathophysiologic mechanisms, and develop and defend a proposed plan for management, including informed consent, in the TMD and orofacial pain patient.
6. Recognize indications for TMJ imaging and discuss the advantages and disadvantages of various modalities as well as the diagnostic criteria used to discern TMJ pathology from normal variation.
7. Discuss the indications, contraindications, and limitations of diagnostic procedures for orofacial pain disorders.
8. Discuss the indications, contraindications, and limitations of diagnostic techniques and devices.
9. Discuss the neurophysiologic mechanisms of various orofacial pain disorders.
10. Develop a differential diagnosis between temporomandibular disorders and other orofacial pain disorders of local or systemic origin.
11. List a classification of the various orofacial pain disorders.

12. Describe the indications and contraindications for pharmacologic, physical medicine, behavioral, and surgical procedures used in treating TMD and orofacial pain disorders.

Reference texts:

Okeson, JP: Management of Temporomandibular Disorders and Occlusion, 4th Edition, CV Mosby Company, St. Louis, Missouri, 1998.

Okeson, JP. Bell's Orofacial Pains 5th ed., Quintessence Publ, Chicago, IL, 1995

Okeson, JP(Ed) Orofacial Pain: Guidelines for Assessment, Diagnosis and Management, Quintessence Publ, Chicago, IL, 1996

TOPIC

1. Introduction to Course, "Pain as an Experience", Neuroanatomy & Physiology of Pain
2. Continuation of Neuroanatomy Pain Modulation
3. Heterotopic Pains; Central Excitatory Effects; Classification of Pain; Somatic and Neuropathic; Chronic vs. Acute Pain
4. Criteria for Optimal Joint Position and Occlusal Relationship; Normal Masticatory Function; Part I of Occlusion & TMD
5. Part II of Occlusion and TMD
6. Functional Anatomy of the Masticatory System; Biomechanics of the Temporomandibular Joint; Disc-interference Disorders
7. History and Examination for the Orofacial Pain/TMD patient
8. The Classification of Orofacial Pain: Differential Diagnosis Etiology and Classification of Masticatory Muscle Disorders
9. Management of Masticatory Muscle Disorders
10. Management of Disc-interference Disorders
11. Classification of Orofacial Pain: Differential DX of Headache

12. Classification of Orofacial Pain: Differential DX of Vascular Pain
13. Classification of Orofacial Pain: Differential DX and Mechanisms of Neuropathic Pain
14. Classification of Orofacial Pain: Differential DX of Deafferentation and Sympathetically Maintained Pains
15. The Use of Occlusal Appliances in TM Disorders