Temporomandibular Disorders and Dysfunctions Module

Module Title	Temporomandibular Disorders and Dysfunctions
Module Number	3
Module ECTS	10
Module Code	ТВС
Module Delivery	8 weeks + 1 week bootcamp
Module Coordinator	Dr Philip Hardy
Teaching Staff	Prof Glenn Clark USC
Ŭ	Prof. Mariela Padilla and Dr. Kamal Al-Eryani USC
	Dr Dermot Canavan, Assistant Professor, Trinity
	Dr Philip Hardy, Assistant Professor, Trinity
	Dr Michael O'Sullivan, Associate Professor, Trinity
Module Content	Lecture topic areas will include:
	- Masticatory, TMJ and Cervical Anatomy
	- Definitions and Classification systems used for TM disorders
	- Diagnosis of Internal Derangements, Dislocations and Locking
	- Diagnosis of Acute and Chronic Muscle Pain
	 Diagnosis of Uncommon TM Disorders and Dysfunctions
	 Diagnosis of Localized and Generalized TMJ Arthritis
	 Non-Surgical Treatment of Internal Derangements
	- Office-Based and Home-Based Treatment of Chronic Muscle Pain
	- Treatment of TMJ Arthritis
	- Surgical Intervention for TMJ disease
	- Behavioural Treatment for TMD
	 Appropriate Use of Botulinum Toxin for TMD and Bruxism
	Hands-on Training (bootcamp) in Trinity will cover the following areas:
	1. Diagnostic Procedures
	- Comprehensive Head and Neck Examination
	- CBCT of the TMJ
	- MRI image of the TMJ
	- Stretch Localization of Jaw Motion Restrictions
	2. Physical Medicine Therapeutic procedures
	- Thermal Therapy
	- Jaw and Neck Exercises
	- Jaw and Neck Stretch Therapy
	- Injections for Pain, Spasm and Inflammation
	 Appliances and Counter-stimulation Devices Closed Lock - TMJ Mobilization
	- Open Lock - TMJ Manipulation
	3. Injections for Muscle Hyperactivity Disorders
	- Trigger Point Identification
	- TMJ Injection (corticosteroid and hyaluronate)
	- Botulinum Toxin for spasm/dystonia management
	- Botulinum Toxin for repetitive wide open dislocation
	- Botulinum Toxin for masticatory muscle hypertrophy
	4. Patient Instructions and Explanations in Orofacial Pain
	- Myofascial Pain Stretching Exercises Instructions
	- Jaw Resting Exercises Instructions

	- Thermal Therapy Instructions
	- Soft Diet Instructions
	- Avoidance Instructions
	- Relaxation Exercise Instructions
	- Occlusal Appliance Instructions
	- Avoiding Open Locking with Treatment Instructions
Module Learning	On successful completion of the module, the student should be able to:
Outcomes	M3-01. Describe and demonstrate how to perform a medical history interview
	and examination data, a diagnosis, including identifying the significant
	contributing factors, and a treatment plan for a patient with a motor disorder,
	mobility and growth disorder or a temporomandibular arthritic
	disease/dysfunction occurring in the orofacial region.
	M3-02. Describe the anatomical and physiological basis of neurogenic pain
	disorders, motor disorders, mobility and growth disorders and
	temporomandibular arthritic disease and dysfunctions that occur in the
	orofacial region.
	M3-03. Describe and demonstrate how to perform basic radiographic
	interpretation of orofacial disease using both local dental, panoramic and
	advanced CBCT and MRI imaging techniques to identify developmental,
	traumatic and congenital abnormalities of the face and jaws and TMJ.
	M3-04. Describe how to perform the appropriate diagnostic anaesthetic blocks,
	trigger-point injections, botulinum toxin injections, sodium hyaluronate and
	corticosteroid injections for Orofacial pain and temporomandibular disease.
	M3-05. Describe how to perform the spray and stretch, thermal therapy, and
	instruct patients in an effective home based physical medicine procedures used
	to manage chronic musculoskeletal pain.
	M3-06. Describe how to create, insert and manage orthotic devices (stents and
	splints) for Orofacial pain and Temporomandibular disease and dysfunctions.
	M3-07. Describe how to perform an anaesthesia assisted mobilization of the
	TMJ when it exhibits acute onset limited motion.
Module Assessment	
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	hotspots) video lectures and post-lecture quizzes, final course examination and
	written homework assignments (30%) (formative).
	2. Practical assignments. Year-end Objective Structured Clinical Examinations
	given in the summer bootcamp (30%) (summative).
	3. Case study analysis. Weekly Live Video Conferences (seminar participation)
	40% (formative).