# Neuropathic Orofacial Pain Module

<table>
<thead>
<tr>
<th>Module Title</th>
<th>Neuropathic Orofacial Pain</th>
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<tbody>
<tr>
<td>Module Number</td>
<td>1</td>
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<td>Module ECTS</td>
<td>10</td>
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<td>Module Code</td>
<td>TBC</td>
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<td>Module Delivery</td>
<td>12 weeks</td>
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<tr>
<td>Module Coordinator</td>
<td>Dr. Dermot Canavan</td>
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<td>Teaching Staff</td>
<td>Prof Glenn Clark USC</td>
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<td>Prof. Mariela Padilla and Dr. Kamal Al-Eryani USC</td>
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<td>Dr Dermot Canavan, Assistant Professor, Trinity</td>
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<td>Dr Philip Hardy, Assistant Professor, Trinity</td>
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<td>Dr Michael O’Sullivan, Associate Professor, Trinity</td>
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**Module Content**

**Lectures Topics will include:**
- Neurogenic OFP Disorders
- Why can’t I get the tooth numb
- Causes of Pulpalgia other than caries and cracked tooth
- Diagnosis and Treatment of Neuropathic Orodental Pain
- Prevent and Treatment of Neuropathic Pain
- Diagnosis and Treatment for Trigeminal Neuralgia
- Diagnosis and Treatment of Burning Mouth Syndrome
- Other Trigeminal Sensory Neuropathies [PHN + CRPS]
- Trigeminal Neuritis, Neural Trauma, & Dental Implant Pain
- Complementary and Alternative Treatments
- Electrical Stim Interventions for Chronic Pain
- Needle therapy (exclude Botulinum) for Neuropathic Pain
- Botulinum for Pain
- Behavioural Treatment for Chronic Pain

**Hands on training (bootcamp) in Trinity will cover the following areas:**

1. Diagnostic Procedures
   - Cranial Nerve Examination
   - Otoscope Examination
   - Ophthalmoscope Examination
   - Oral Neuropathic Pain Assessment
   - Anaesthetic Testing Protocol
2. Appliances, Stents and other Devices
   - Neurosensory Stents
   - Avoiding Neuropathic Pain flare-ups with Planned Treatment
3. Diagnostic Tests
   - MRI image (non-contrast) for the trigeminal nerve
   - CBCT imaging for possible cracked tooth
   - Serologic and other Blood-based Tests
   - Suspected autoimmunity: Serologic Testing
   - Mucoadhesive and Vacuum formed neurosensory stents
4. Patient Instructions and Explanations in Orofacial Pain
   - Neurosensory Stent Instructions
   - Avoiding Neuropathic Pain with Planned Treatment
   - Medically unexplained symptoms
   - Neuropathic Pain with secondary HA
### Module Learning Outcomes

On successful completion of the module students should be able to:

**M1-01.** Describe and demonstrate how to collect a medical history interview, perform a physical examination and interpret diagnostic test data towards the goal of creating a differential diagnosis and treatment plan for a patient with a neurogenic pain disorder occurring in the orofacial region.

**M1-02.** Describe and demonstrate how to perform instruction of a chronic pain patient in how to conduct exercises involving relaxation, self-hypnosis and positive cognitive suggestions.

**M1-03.** Describe how to perform a simple behavioural assessment of a patient with acute and chronic disease.

**M1-04.** Describe the anatomical and physiological basis of neurogenic pain disorders that occur in the orofacial region.

**M1-05.** Describe the mechanism of neuropathic pain (including but not limited to peripheral and centralized sensitization, sympathetically involved and maintained pain and other chronic regional pain syndromes).

**M1-06.** Describe the alternative and complimentary therapy for chronic neurogenic pain.

### Module Assessment

1. **Written assignments.** Asynchronous interactive (embedded quizzes and 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).