



**8th EFIC BERGAMO PAIN SCHOOL IN:
NEUROLOGICAL DIAGNOSIS IN CHRONIC PAIN**
“Clinical and instrumental processes”
10th - 13th October 2016

Aim

Physicians from many different specialities are increasingly involved in Pain Medicine.

*The **EFIC Bergamo Neuropathic Pain School** will assist pain clinicians to refine their clinical neurological diagnostic and assessment approach to identify neuropathic pain and to improve their ability to interpret clinical, instrumental and laboratory finding and to establish the most appropriate treatment.*

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SCIENTIFIC PROGRAMME

MONDAY, 10th October

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| 08:00 – 08:30 | Welcome Message from EFIC® President | CHRIS WELLS |
| 08:30 – 09:15 | Opening Lecture: Definition and mechanisms of pain. Translation of symptoms into pain mechanisms The lecture will cover mechanisms of pain in the context translation to patients. Transduction, Transmission: Perception. Modulation. Nociception and pain. Pain without nociception and nociception without pain. Nociceptive and neuropathic pain | ANTHONY DICKENSON |
| 09:15 – 09:45 | Pain generators in the nervous system: a neuroanatomy refresh “Where” a neurological lesion or disease might express itself with neuropathic pain (peripheral or central). | ROBERTO CASALE |
| 09:45 – 10:45 | Neurological lesion or disease How a neurological lesion or disease express themselves in terms of positive and/or negative sensory symptoms with other (motor, vegetative) symptoms and how to identify neuropathic pain as a player in those conditions. | DIDIER BOUHASSIRA |
| 10:45 – 11:15 | Coffee Break | |
| 11.15 – 13.00 | Pain questionnaires, diaries and pain mapping. A critical reappraisal of their usefulness and limits with special regards on: Neuropathic pain questionnaires (LANSS; BPI, NPQ, DN4 etc ;) Quality of life, ADL. (Importance of) | DIDIER BOUHASSIRA |
| 13:00 - 14:00 | Lunch break | |
| 14:00 | <i>Transfer to ZINGONIA HOSPITAL (BG) for Clinical Practical Training.</i> | |
| 14:30 – 16:00 | Assessment of patients with barriers to communication. Infants, children, patients with cultural, educational or language barriers to communicate, adults with cognitive problems, intubated or in minimally conscious state pose a difficult task. As a consequence there are no shared guidelines that can help the clinician in assessing and treating pain. | ANTONIO DETANTI |
| | Afternoon Clinical Practical training Under the guidance of experts participants will have the opportunity to participate in assessing pain in minimally conscious state patients. | ANTONIO DETANTI |
| 16:00 – 16:30 | Coffee Break | |
| 16.30 – 18.30 | Objective pain diagnostics: theory and practice – Part 1 (with the help of Drs N. TAJOCCHI, A. FURNARI, V. ROMEO & A. LAMANNA) Routine neurophysiology (Clinical indications and limitations) EMG, ENG, Reflex responses (blink, Ralll) PEPs, CHEPS etc | LUIS GARCIA-LARREA |



**Quantitative Sensory Testing (thermal, vibratory)
examination in normal subjects**

Participants will carry out exercises applying QST on themselves.

TUESDAY, 11th October

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| 08:00 – 08:45 | Objective pain diagnostics: theory and practice – Part 2 The skin biopsy: the intraepidermal nerve fiber density (IENFD) | MARIA NOLANO |
| 08:45 – 09:30 | The imaging of Pain | CARLO PORRO |
| 09:30 – 10:15 | Autonomic nervous system testing | VALERIA TUGNOLI |
| 10:15 – 10:45 | Coffee Break | |
| 10:45 – 11:30 | How to interpret inflammatory flags in the differential diagnosis between nociceptive and neuropathic pain Clinical red flags Laboratory red flags (blood samples for inflammatory markers, etc.) | P. SARZI-PUTTINI |
| 11.30 – 13:00 | The clinical examination of the chronic neuropathic pain patient This pivotal tutorial will examine diagnostic approaches to most common pain syndromes in neurology i.e.: painful diabetic polyneuropathy, post herpetic neuralgia, entrapment neuropathies (including complicated low back pain). - Data from clinical evidence and case scenarios are presented and discussed in relation with guidelines on Neuropathic pain (IASP NeupSig EFNS etc) - Diagnostic work-up of neuropathic pain flow chart - QST interpretation in pain medicine - Pressing issues | PER HANSSON |
| 13:00 - 14:00 | Lunch break | |
| | Afternoon Practical training | |
| 14:00 – 16:30 | The clinical examination of the chronic neuropathic pain patient in practice Under the guidance of an expert clinician, participants will have the opportunity to participate to an outpatient consultation of the most common pain syndromes in neurology painful diabetic polyneuropathy, postherpetic neuralgia, limb nerve entrapment neuropathies (including complicated low back pain). | PER HANSSON |
| 16:15 – 16:45 | Coffee Break | |
| 16:30 – 18:00 | The QST examination in patients (with the help of Alessandro LAMANNA for the technical part) Participants will carry out exercises applying what they have learned in the morning lessons through workshops composed of small groups, role playing and multimedia simulations including QST testing. | PER HANSSON |



WEDNESDAY, 12th October

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| 08:00 – 08:45 | Guidelines on the pharmacological treatment of neuropathic pain: which one and what revision. | |
| 08:45 – 09:45 | Part-I Drug classification and terminology from a pain medicine perspective PAOLA SACERDOTE Drugs acting on transduction: nociceptor activation and peripheral sensitization Drugs acting on transmission (from periphery to spinal cord; central sensitisation) | |
| 09:45 – 10:30 | Topical treatments Ketamine, baclofen, Lidocaine, capsaicine, benzodiazepine | ROBERTO CASALE |
| 10:30 – 11:00 | Coffee Break | |
| 11:00 – 13:00 | Part II Drug classification and terminology from a pain medicine perspective. Drugs acting on modulation (descending pathways) Drugs acting on perception Pain, immunity,depression | RICCARDO TORTA |
| 13:00 – 14:00 | Lunch | |
| 14.00 – 15:30 | Drugs acting on modulatory non nociceptive system Mastcells; scavenger, etc. | ROBERTO CASALE |
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| | Aperitif session Wine tasting and the psychophysical approach to pain perception. Is pain a “simple experience”? Attendants will describe sensations evoked by different stimulations (including wine tasting) to understand how sometimes can be difficult to describe them. | ROBERTO CASALE |



THURSDAY, 13th October

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| 08:30 – 10:00 | Nociceptive neuropathic or mixed in cancer and non-cancer pain patients: a reappraisal of unclear concepts Why and how can cancer pain differ from nociceptive or neuropathic pain. | MAGDI HANNA |
| 10:00 – 10:30 | Coffee Break | |
| 10:30 – 12:00 | Critical Appraisal of Surrogate Human Pain Models: can they be used for translational research This lecture will cover all available human pain models from Electrical, chemical to cold etc | MAGDI HANNA |
| 12:00 – 13:00 | Take home messages Learning questionnaires In this setting, the clinical and diagnostic tools learned during the School will be discussed and compared, with teachers, in relation to real clinical cases. | FACULTY |
| 13:00 | End of the Course | |

General information

School's Director: robertocasale@habilita.it

School's Secretariat: efic@defoe.it

School Venue



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