

Modern techniques for peripheral nerve blockade

28-29 January 2010

Rigshospitalet, Copenhagen University Hospital

Background

The use of peripheral nerve blocks have increased almost exponentially during the last 15 years due to new nerve stimulation techniques and atraumatic needles. Unfortunately, the nerve stimulator cannot "see" if the tip is intravascular, intrapleural, or on the wrong side of a muscle fascia. However, these structures can be easily identified with ultrasound. Using the correct equipment and scanning technique you can identify the nerves, observe the advance of the needle, and the spread of the injected local anaesthetic agent. However, in some patients, the ultrasound picture is not good enough to identify all structures. Nerve stimulation and/or hydrolocation techniques can be useful adjuncts to localise the tip of the needle and should be used as "back-up" methods.

Course description

Teaching is largely based on visual input (videos of the most frequently used nerve blocks) and hands-on workshops of nerve blocks on models and manikins. The aim of the course is to give the participants basic and clinically useful knowledge about ultrasound and nerve stimulation for the most frequently used blocks. The course follows the ASRA/ESRA guidelines for teaching the ultrasound-guided blocks and is aimed at both specialists and residents in training.



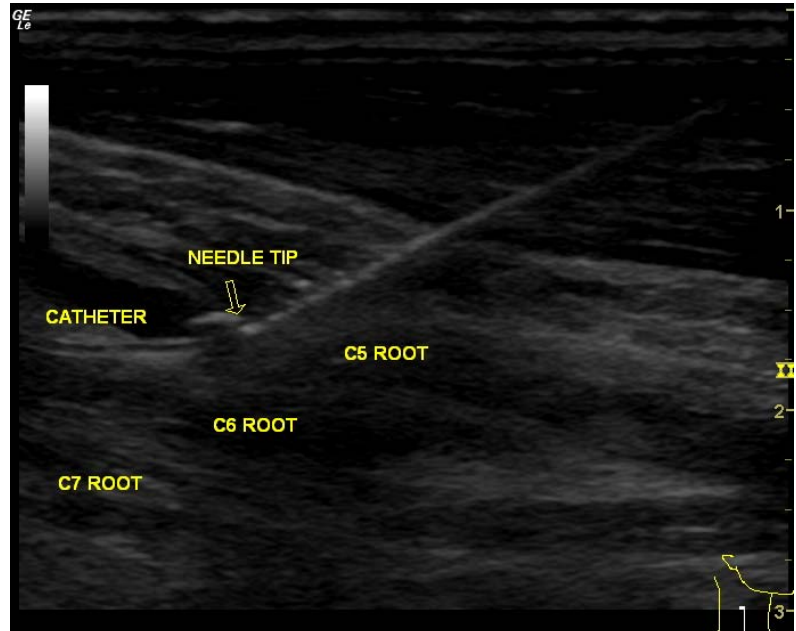
Program

Day 1:

- Advantages and disadvantages of nerve stimulation and ultrasound
- Basic knowledge about ultrasound and handling of ultrasound machine
- Workshop on control of needle advancement on animal model
- Upper extremity (interscalene, supra-, infraclavicular, axillary blocks and suprascapular nerve block)
- Distal nerve blocks at the elbow and wrist
- Upper extremity blocks – workshops (sonoanatomy and percutaneous electrical stimulation on models)

Day 2:

- Lower extremity blocks (lumbar plexus, sciatic nerve - transgluteal, subgluteal and anterior approaches, femoral nerve, obturator nerve)
- Distal nerve blocks at the knee and ankle
- Lower extremity blocks – workshops (sonoanatomy and percutaneous electrical stimulation on models)
- Longitudinal (LAX) nerve scan for inserting perineural catheters
- Blocks of small nerves (iliohypogastric, ilioinguinal, intercostal, stellate ganglion)
- Workshops (sonoanatomy of small nerves on models)



Faculty

- **Zbigniew Koscielniak-Nielsen**, Assistant Professor, MD, DMSc, Department of Anaesthesia, Centre of Head and Orthopaedics, Rigshospitalet, Copenhagen University Hospital
- **Thomas Fichtner Bendtsen**, Assistant Professor, PhD; Department of Anaesthesia, Aarhus University Hospital
- **Jens Børglum Neimann**, Assistant Professor, PhD, Department of Anaesthesia, Bispebjerg Hospital, Copenhagen University

Language

Danish, Scandinavian or English depending on the nationality of participants and their preference.

Course Director

Dr. Zbigniew Koscielniak-Nielsen.

Organiser

The Department of Anaesthesia, Centre of Head and Orthopaedics, Rigshospitalet, Copenhagen University Hospital.

Price

3500 DKK, including coffee, lunches, course material and dinner Thursday evening.

No. of participants

Max. 20.

Registration

Mail to Secretary Gitte Blom: gitte.blom@rh.regionh.dk