Ultrasound Use to Facilitate Challenging Procedures in Pediatric Rehabilitation Medicine

Course 401 Thursday Nov 13, 2014
11:30 am to 1 pm

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Course Objectives

Learning Objective #1
- Participants will demonstrate an understanding of the basic physics of ultrasound and techniques used for injection procedures in PRM including botulinum toxin injections, phenol nerve blocks, SI joint injections and Baclofen pump refills.

Learning Objective #2
- Participants will be able to describe ultrasound echotexture properties of muscle, nerve and tendon in longitudinal and cross section.

Learning Objective #3
- They will be familiar with navigation of the coding, billing and credentialing processes surrounding US guided injection procedures common to PRM practice.
Botulinum Toxin Injections

- Usual Methods (could be in combination)
  - Palpation
  - Electrical Stim/EMG
  - US guidance

- Conditions
  - Torticollis
  - Drooling (will not be covered in this course)
  - Spasticity- upper and lower limbs
  - Muscle imbalance- Neonatal Brachial Plexopathy
Chemical Neurolysis

- Phenol nerve blocks
  - Musculocutaneous
  - Obturator nerves

- US guidance facilitates localization but E-stim still necessary
Sacroiliac Joint Injections

- SI joint dysfunction common cause of biomechanical low back pain
- Neuromuscular scoliosis with instrumentation to pelvis
  - May be particularly problematic in CP
  - Tight hamstrings compound problem
Baclofen Pump

- Trials
  - Facilitates Lumbar Puncture
- Refills
  - Obesity
  - Flipped pump?
• Mehmet Zekai Pekkafalı, MD, Mehmet Zeki Kıralp, MD, Cihat Çınar Başekim, MD, Emir Silit, MD, Hakan Mutlu, MD, Ersin Öztürk, MD, Esref Kızılkaya, MD, Hasan Dursun, MD: Sacroiliac Joint Injections Performed With Sonographic Guidance. *JUM* June 1, 2003 vol. 22 no. 6 553-559


Enjoy the Course!