Headaches and Fibromyalgia

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Transduction by the Afferent Pathway

Transduction

Mast cell

Platelet

5HT

SP

H
Cross-Section of Spinal Cord with Details of the Dorsal Horn
MUSCULOSKELETAL

- Overuse syndromes – neck forward
- Weekend warriors – back sprains
- May become chronic
Vitamin D

- 40 % of children referred to The Childrens Hospital Pain clinic were deficient; replacement has helped a number with myofascial pain issues
- Lowest Level seen – 6
- Adults referred to the University Pain Clinic; 35%. Again these patients have myofascial pain issues
Fibromyalgia

- Primary vs secondary
- Sleep correction critical
- Decreased gray matter in hippocampal gyri, right posterior cingulate cortex and left anterior cingulate cortex
- Areas associated with enhanced pain perception, cognitive dysfunction, and abnormal stress reactivity
- Abnormal dopamine metabolism correlated
Drugs for fibromyalgia

- Anticonvulsants
- Tramadol
- Muscle relaxants
- Celebrex
- Sleep agents
- Antidepressants
Anticonvulsants

- Gabapentin 50 mg per kg, 600-3600
- Pregabalin Start 25-75, 100-600
- Topiramate Start 12.5-15, 50-200 mg
- Lamotrigine Start 25, Range 100-200 mg bid
- Trileptal Start 75-150, 150 tid
New Fibromyalgia Drug

- Savella – milnaciprin
- Comes in starter dose pack. Unable to get smaller doses consistently
- Injections into tender places may help; massage also helps. Small study together shows combination is better
Headache

- Head forward position
- Occipital, auricular, supraorbital neuralgias
- Muscle spasms in frontalis, procerus, temporalis, semispinatus, splenus capitus, trapezius, parascapular and paravertebral muscles
- Injections help
Headache drugs

- Muscle relaxants
- Anticonvulsants
- Indomethacin
- Antidepressants
- Abortives
- Long acting opiates
- Ketamine infusions
Headaches

- Never treat more than 8 days per month
- Migralief – vitamin B2, magnesium, co Q 10
- Vitamin D – above 30
- Ferritin levels – above 50
HEADACHES

- Many patients with headaches have been shown to have genetic abnormalities with Ca++ regulation
- B2, Magnesium, Co Q 10 may help by energizing mitochondria
TOPICAL AGENTS

- LIDOCAINE
- CAPSAICIN
- AMITRIPTYLINE
- KETAMINE
- ANTICONVULSANTS
- COMPOUNDED DRUGS