AAP BRS podcast: Cancer Part 1 - Pain and Rehab

Pain and Red Flags

- Achy pain can have several underlying causes
 - Further imaging is warranted if pain has associated red flags
- Potential red flags are:
 - 0 Unexplained weight loss
 - History of cancer
 - \circ Age > 50
 - o Persistent pain despite conservative measures
 - 0 Night pain
 - o Pain with weight bearing

Next Step: Work Up

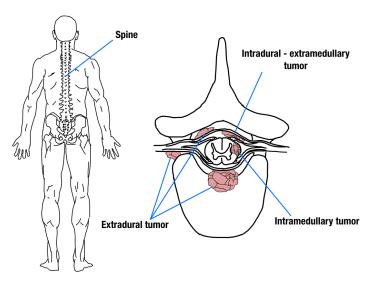
- An MRI is the next step to identify potential lesions
- Bone lesions are most likely metastatic in nature
- A biopsy would follow to identify the primary tumor
- Cancers that tend to metastasize to bone can be remembered by mnemonic "<u>BLT</u> with <u>P</u>ickle on <u>R</u>ye with <u>M</u>ustard and <u>M</u>ayo"
 - <u>B</u>reast, <u>L</u>ung, <u>T</u>hyroid, <u>P</u>rostate, <u>R</u>enal, <u>M</u>ultiple <u>M</u>yeloma

Goals of Rehab in Cancer Patients

- Prevention
 - Attempt to prevent impairments that will arise from disease process and proposed treatment
- Recovery
 - Identify impairments and maximizing recovery from those impairments
- Support
 - Focus is maintaining independence by improving activities of daily living
- Palliation
 - Focus is quality of life and managing pain

Spinal Cord Tumors

- Majority are benign but can grow large enough to cause mass effects such as weakness, sensation changes, bladder/bowel disturbances
- Categorized by location (extradural vs. intradural intramedullary vs. intradural extramedullary)
- Extradural tumors mnemonic is "EMS"
 - 0 <u>E</u>xtramedullary, <u>M</u>eningioma, <u>S</u>chwannoma
- Intradural intramedullary tumors mnemonic is "<u>AEI</u>"
 <u>A</u>strocytoma, <u>E</u>pendymoma, <u>I</u>ntramedullary
- Intradural extramedullary tumors mnemonic is "<u>No More</u> <u>Spinal Masses</u>"
 - <u>N</u>eurofibroma, <u>M</u>eningioma,
 <u>S</u>chwannoma, <u>M</u>etastasis



Pharmaceutical Cancer Pain Treatment

- The World Health Organization has designed a four-step algorithm for treating pain related to cancer:
 - 1. Acetaminophen, NSAIDs, and adjunctive or neuropathic medications
 - Max out medications from step 1 then add opioid such as codeine, hydrocodone, or Tramadol (SNRI could also be considered)
 - 3. Add strong opioid such as methadone, hydromorphone, or fentanyl
 - 4. Add an intervention or change oral medication to intrathecal

Minimizing Side Effects

- Opioids have a plethora of side effects including constipation, nausea, sedation, urinary retention, pruritis, respiratory depression, and mental status changes
- It's a balancing act to address pain associated with malignancy while minimizing adverse effects
- Intrathecal delivery can minimize adverse side effects
 - Medication is administered directly on the spinal cord, minimizing amount of medication in systemic circulation

Major Takeaways: Things to Keep in Mind

- 1. Be on alert for red flags
- 2. Know which primary tumors most often metastasize to bone
- 3. Different classifications of spinal cord tumors
- 4. Goals for cancer rehab
- 5. WHO Four-Step algorithm for cancer pain treatment
- 6. Minimizing side effects of opiates