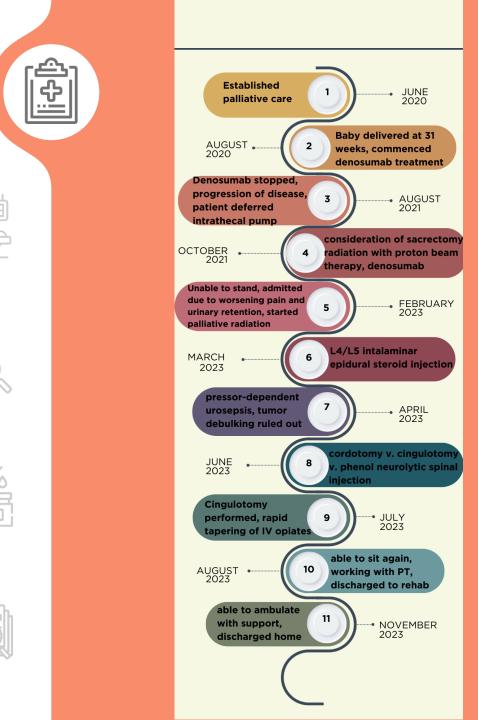
Pain Management of a Giant Sacral Tumor: A Challenging Case Review

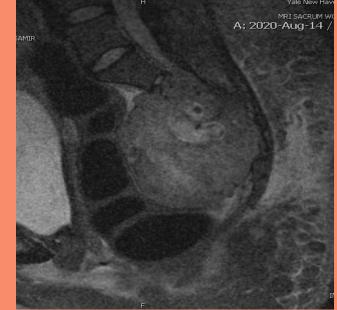
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Patient Introduction:

- 3/2020: 27-year-old female presents during her 25th week of pregnancy with lower back pain radiating down her leg.
- Due to persistent pain, she is imaged 2 months later and found to have a giant cell sacral tumor at S2-S4 centered in the bones at the sacro-coccygeal junction, confirmed by biopsy.
- Symptoms: b/l lower back pain radiating to b/l lower extremities, perineal pain, bladder/bowel incontinence



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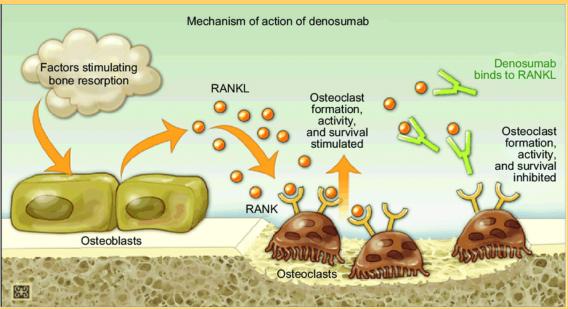
- Primary intramedullary, **BENIGN** tumor of the bone
- Mostly occurs in the epiphysis/metaphysis of the femur or tibia
- Only 2-8% are located in the sacrum
- Locally aggressive, rarely metastasizes (lungs)
- Diagnosis via imaging and biopsy
- Occurs in younger patients, age 20-45
- High risk of recurrence
- Due to location of the sacral tumor, pain management is difficult.
- Gap in the literature describing management of sacral giant cell tumors

Treatment Options:

• Surgical resection/curettage with cementation

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- Embolization
- Denosumab
- Radiation therapy
- Novel therapy: topical/systemic bisphosphonates, cryoablation













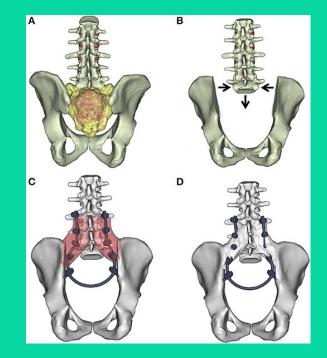
PAIN MANAGEMENT AT A GLANCE



 Opiates (IV and PO), NSAIDs, neuropathic pain agents, corticosteroids have been reported to be used to manage pain in other case reports of patients with giant cell sacral tumors.

Other Treatment Considerations:

- Intralaminar L4-L5 epidural steroid injection
- Sacrectomy
- Intrathecal pump
- Cordotomy
- Phenol neurolytic spinal

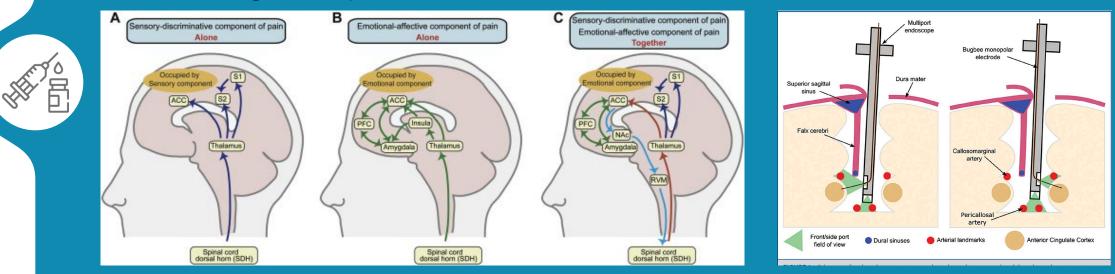


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Anterior Cingulotomy

- Anterior cingulate cortex, a part of the limbic system, processes the perception of pain through emotional reaction and attention to pain.
- Anterior cingulotomy has been used for decades as a treatment for chronic, medically refractory pain, both cancer and non-cancer pain.
- Adverse Effects:
 - Transient (days): post-operative confusion, urinary incontinence, headaches, fever
 - Permanent: hemiparesis, hemorrhage, seizures (mostly in cingulotomies done without MRI guidance)







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- Today, the patient is taking
 - Methadone 10 mg TID
 - Oxycodone 90 mg q3h PRN (reports only taking 3-4 doses a day)
 - Gabapentin 800 mg TID
 - Nortriptyline 75 mg QHS
 - Pregabalin 200 mg q8h
- Pain rating: 5/10
- Able to ambulate with support
- Living at home

Work in progress!

THANK YOU!

