



College of Human Medicine
MICHIGAN STATE UNIVERSITY

CASE REPORT:

RECURRENT METASTATIC
BREAST CANCER IN
PREGNANCY COMPLICATED
BY UNCONTROLLED PAIN

AUTHORS: LAUREN CHAPMAN MPH, SAMANTHA DAMOCLES BS, LAURIE CHALIFOUX MD

MICHIGAN STATE UNIVERSITY COLLEGE OF HUMAN MEDICINE

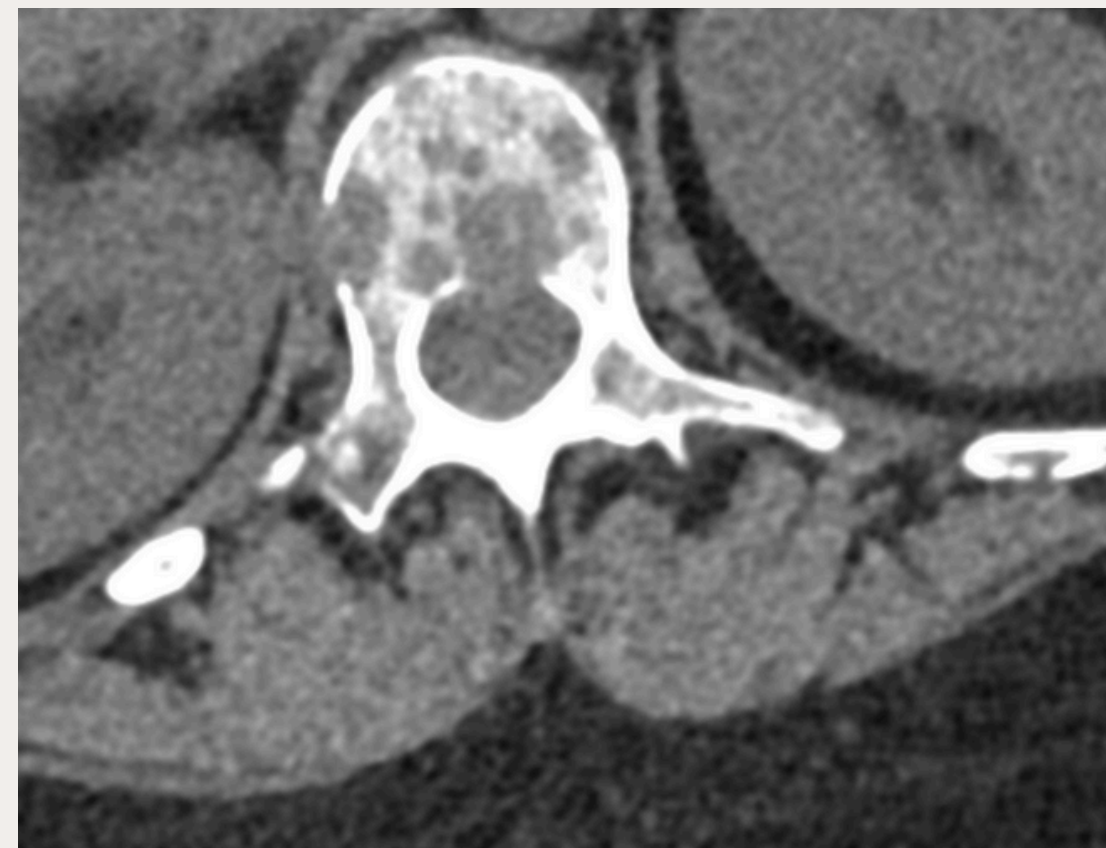


BACKGROUND

- PAIN MANAGEMENT DURING PREGNANCY IS A COMPLEX CLINICAL CHALLENGE, PARTICULARLY IN THE CONTEXT OF ADVANCED MALIGNANCY WITH EXTENSIVE METASTASES.
- BALANCING MATERNAL COMFORT WITH FETAL OUTCOMES REQUIRES INTERDISCIPLINARY COLLABORATION AND CAREFUL DECISION-MAKING.

CASE REPORT

- A 36-year-old nulliparous woman
- History of Stage 1B ER/PR/HER2 positive breast cancer
- Treatment with chemotherapy and lumpectomy 3 years prior
- Presented at 24 weeks gestation via in vitro fertilization with **severe lower back pain** complicated by **hypercalcemia** and an **acute kidney injury**.
- Imaging revealed extensive lytic bone metastases, lung nodules, and signs of heart failure.
- Initial plan was for cesarean delivery at 28 weeks.
- Given her intractable pain, hypoxemia, and declining functional status, an interdisciplinary team elected for cesarean delivery at 26 weeks under general anesthesia.
- Post-delivery, the patient received TAP blocks, IV hydromorphone and PO oxycodone, and was treated for hypoxemic respiratory failure.
- Placental pathology revealed metastatic breast cancer



Challenges included

- Optimizing pain management in the setting of metastatic bone disease
- Avoiding neuraxial techniques due to lytic spinal lesions
- Balancing maternal safety and fetal prematurity



TEACHING POINTS

- Prolonged pregnancy risked exacerbating maternal morbidity, including uncontrolled pain, hypercalcemia, and hypoxemia, while earlier delivery allowed for definitive oncologic management.
- Effective pain management strategies can improve maternal quality of life, while close collaboration among obstetric, oncologic, anesthetic, and neonatal teams is crucial to navigating such complex scenarios.
- The discovery of placental metastases identifies the importance of thorough placental examination and neonatal surveillance.