

Obstetric Anesthesia for a Patient with Super-morbid Obesity and History of Disseminated Blastomycosis Complicated by Epidural Abscess C. Thomas MD, B. Scavone MD Department of Anesthesia and Critical Care, University of Chicago

Background

Blastomycosis

- Caused by *Blastomyces dermatitidis*
- Endemic to the southeastern, south central, and Midwestern US Blastomycosis in pregnancy
- Commonly presents as disseminated disease in the 2nd and 3rd trimesters Symptoms
- Cough, fever, shortness of breath, night sweats, and weight loss Treatment
- IV amphotericin B transitioning to oral itraconazole or voriconazole after delivery

Clinical Presentation

A 23-year-old G3P1 female at 37w4d gestation presented for induction of labor due to preeclampsia

Past Medical History

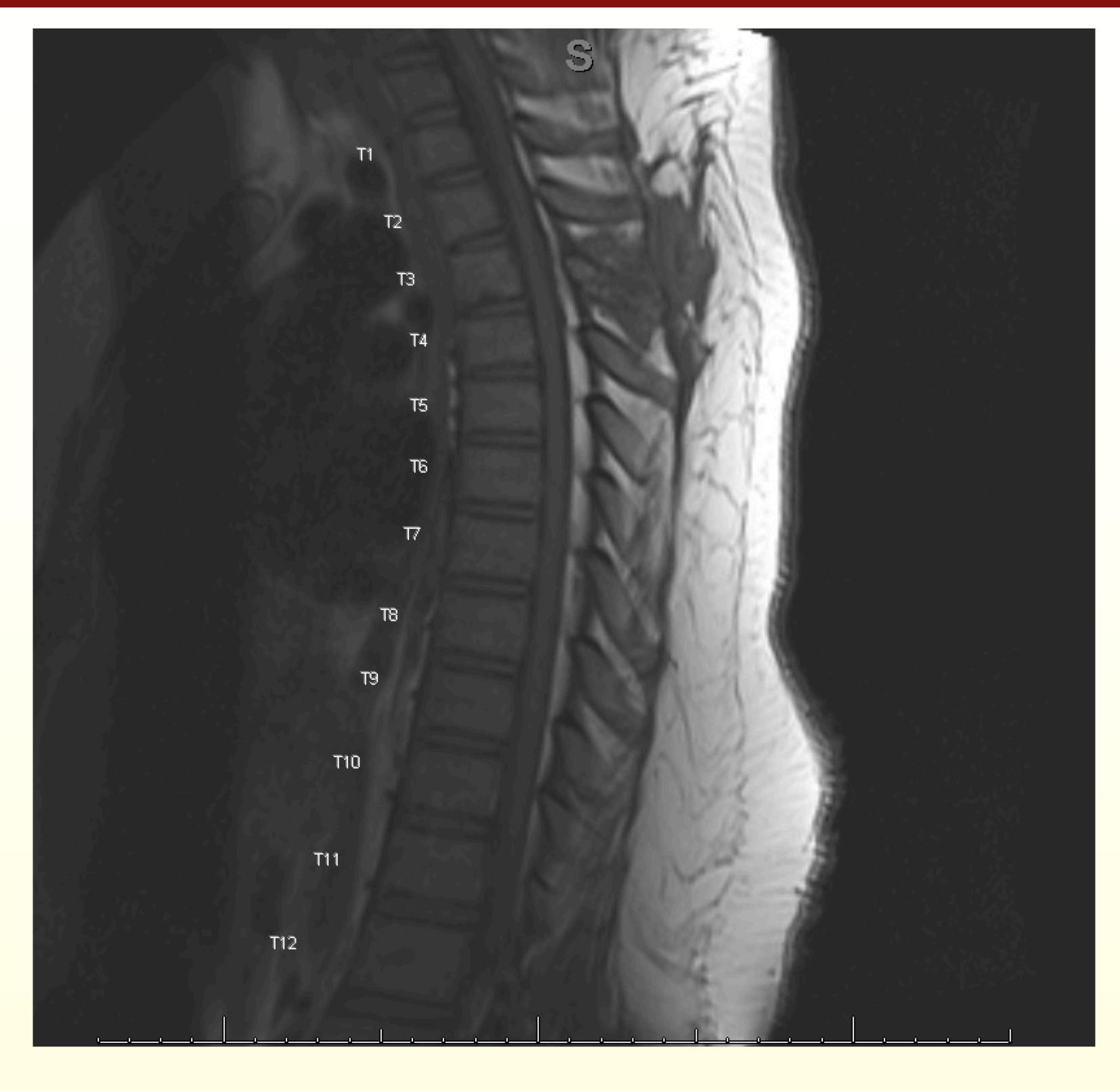
- No prenatal care
- Preeclampsia with severe features in a previous pregnancy
- Asthma
- Morbid obesity (BMI 67)
- History of disseminated blastomycosis during a 2017 pregnancy complicated by epidural abscess, osteomyelitis, acute renal failure requiring dialysis, and ARDS requiring ECMO cannulation
- Patient incompletely treated, having received only 5 of 12 recommended months of voriconazole

Physical Exam

- Obscure bony landmarks
- Mallampati II airway, thick neck

Pertinent vitals and labs

- BP 147/74
- Protein: creatinine ratio



MRI spine:

"Edema of the right paraspinal soft tissues is seen from T2 through T4 with an associated intrathoracic, possibly pleural-based fluid collection. Fluid collections are also seen in the posterior paraspinal soft tissues at T2 and T3. Given the patient's history, these collections likely represent abscesses, potentially containing some blood product as well. 2. Minimal if any marrow edema is seen within the T2-T4 vertebrae. With the limitations of a non-contrast examination, no definite epidural abscess is seen."

blastomycosis

- symptoms
- provided adequate analgesia
- spontaneous vaginal delivery

Infectious Disease Society of America (IDSA) Guidelines for treatment of CNS blastomycosis:

- 4-6 weeks of liposomal amphotericin B followed by an oral -azole for at least 12 months and until resolution of CSF
- Several reports of blastomycosis relapse after therapy completion
- Infectious disease consult obtained due to history of incompletely treated disseminated and epidural blastomycosis
- Goal of infectious disease consult was to aid the risk benefit analysis of epidural analgesia

Risks of E

 Recurrence/worseni infection of incomple blastomycosis

- Clin Infect Dis 2008; 46:1801

Clinical Course

Infectious disease consult to determine the risk of persistent or latent epidural

Further treatment deemed unnecessary by infectious disease given lack of

• An uncomplicated ultrasound-guided dural puncture epidural procedure

• 12.5 hours after epidural catheter placement the patient had an uncomplicated

Discussion

Epidural	Benefits of Epidural
ing of disseminated etely treated	 Avoidance of general anesthesia in case of cesarean delivery (increased with obesity and pre-eclampsia) Avoidance of risk of airway mishaps (unfavorable airway, obesity, pre-eclampsia) Analgesia

References

Baker: Diagnostic Microbiology & Infectious Disease 2017; 88:145