

## Background

Sepsis in pregnancy is a significant cause of maternal and fetal morbidity (1)

Key considerations:

- Determine source of infection
- Medical optimization
- Evaluate for indications requiring delivery

We report a challenging case of an emergent cesarean section in a woman with sepsis and complex comorbidities requiring critical

## Case Presentation

- 32-year-old G3P1 at 32+5 weeks gestation
- Presenting with 3 days of progressive shortness of breath, pleuritic chest pain, jaw pain, and disseminated maculopapular rash
- Prior IV drug use on suboxone, history of endocarditis

## Clinical Findings

Table 1. Labs at Presentation. Values listed in bold are abnormal, red are critical

Chemistry		Liver Function Tests		Hematology	
Na	<b>149</b>	Bilirubin T	<b>3.5</b>	WBC	<b>2.26</b>
K	<b>1.9</b>	Bilirubin D	<b>2.6</b>	RBC	<b>3.39</b>
Cl	105	ALT	<b>250</b>	Hemoglobin	12.4
Bicarb	<b>6</b>	AST	<b>1841</b>	Hematocrit	38.7
Glucose	<b>32</b>	Alk Phos	<b>957</b>	Neutrophil	<b>1.53</b>
BUN	7	Albumin	<b>2.7</b>	PT	<b>21.5</b>
Cr	0.94				
Lactic Acid	<b>20.6</b>				
Anion Gap	<b>38</b>				



Figure 1. Disseminated maculopapular rash

- Tachycardia, hypothermia, tachypnea, hypertension
  - Temp: **35.1 C**
  - Pulse ox: 100% on NC
  - HR: **120 bpm**
  - RR: **34**
  - BP: 147/86
- Limited jaw opening, edematous tongue
- Nonstress test: Moderate variability, no immediate indication for delivery
  - Plans made to prepare for acute change in status
- ICU admission for further stabilization
- Broad differential considered → Interdisciplinary specialists involved



## Diagnostic Workup

<b>Endocarditis History</b>	<ul style="list-style-type: none"> <li>Negative echo with preserved ejection fraction</li> <li>Endocarditis history was in 2018, patient on suboxone and no longer IVDU</li> </ul>
<b>Transaminitis</b>	<ul style="list-style-type: none"> <li>Valerian Root-induced Liver injury               <ul style="list-style-type: none"> <li>Supplement aimed to reduce headaches</li> <li>Limited research on safety in pregnancy</li> </ul> </li> <li>Treated with N-Acetylcysteine with improvement of LFTs and RUQ pain</li> <li>Avoided hepatotoxic medications</li> </ul>
<b>Sepsis Etiology</b>	<ul style="list-style-type: none"> <li>Rash concerning for various infectious or rheumatologic causes</li> <li>Confirmed to be due Coxsackievirus A with a positive enterovirus PCR</li> <li>Jaw pain caused by mouth sores</li> </ul>

## Perioperative Management

- Next day after admission: Biophysical profile of 0/10 → Emergent cesarean delivery
- Neuraxial anesthesia contraindicated due to systemic infection
- Airway concerns:** Limited jaw mobility due to mucositis, improved with sedation
- General anesthesia approach:** Rapid sequence induction
  - Induction agents:** Etomidate, propofol, succinylcholine
  - Maintenance agents:** Propofol, rocuronium, fentanyl, no volatile agent
- EBL: 800 cc. APGAR: 6 and 8 at 1 and 5 mins respectively



# Anesthetic Management for Cesarean Section in a Parturient with Valerian Root-induced Liver Injury and Coxsackie Sepsis

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## Discussion

- Sepsis in pregnancy requires careful consideration of maternal stabilization and fetal status when determining timing of delivery
- Meticulous anesthetic planning and interdisciplinary collaboration are essential in managing critically ill obstetric patients
- The complexity of the case required:

