

# Postpartum Cerebral Venous Sinus Thrombosis in a Patient with Aplastic Anemia, Preeclampsia, and HELLP Syndrome

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## ◉ Background

- Central venous sinus thrombosis (CVST) is a rare cause of stroke but occurs more commonly in association with pregnancy and puerperium
- Prognosis can be favorable in those with early treatments, with mortality rates < 15%<sup>1</sup>

## ◉ Case

- 42-year-old G2P1 with aplastic anemia presented at 39w4d with SRROM with plan for TOLAC
- Diagnosed with preeclampsia with severe features by BP
- Thrombocytopenia with platelet count of 56k

1. Kasgkoushet al. *Journal of Clinical Neuroscience* 39 (2017): 9-15.

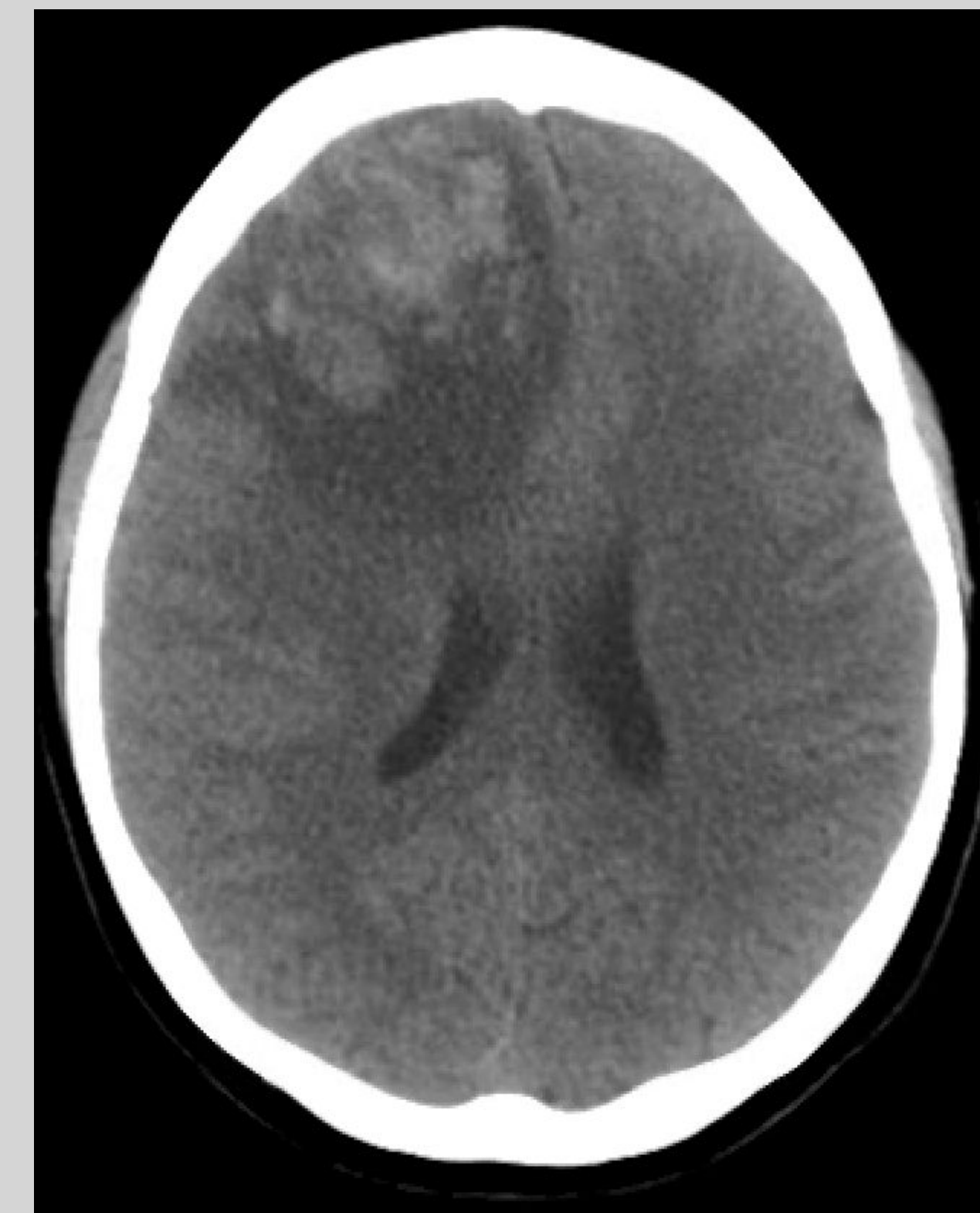
# Case Presentation

## Labor & Delivery

- Analgesia with Remifentanyl PCA
- Complicated with diagnosis of HELLP
- Transfused 2u prbc & 1u plt
- NSVD with QBL 295 mL
- Discharged on PPD2

## Postpartum

- PPD11 reported HA and low-grade fever in video visit
- PPD12 presented to ED with persistent HA, new L hemibody weakness, and seizures



## ICU

- Treated with heparin gtt
- Worsening neuro exam with elevated ICPs
- Two failed attempts of thrombectomy and catheter-directed thrombolysis
- Progressively hypotensive and hypoxic despite maximal support
- PPD22 transitioned to comfort care and passed away

# Discussion

- ◉ The rate of pregnancy-related CVST has been reported to be 9.1 per 100,000 pregnancies, contributing to 2% of pregnancy-associated strokes<sup>1</sup>
- ◉ Headache is the most common presenting symptom<sup>2</sup>

## Case Highlights

1. The clinical suspicion for CVST in postpartum patient who present with headaches may be complicated by suspicion of hypertensive disorders of pregnancy
2. Early diagnosis and intervention is critical to improving outcomes

1. Swartz et al. *International Journal of Stroke* 12.7 (2017): 687-697.

2. Roeder et al. *Handb Clin Neurol*. 2020;172:3-31.