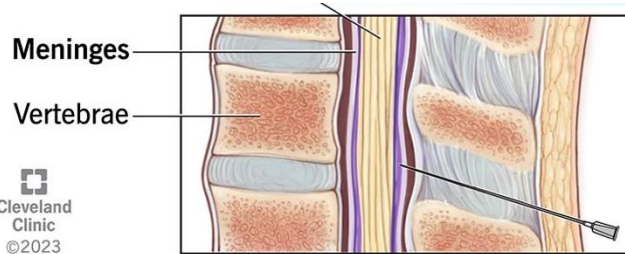


Lost in Translation: Limited English Proficiency and Suboptimal Management of Postdural Puncture Headache



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Background



Epidemiology

- Incidence: 0.4-1.5%
- Associated with significant maternal morbidity and interferes with maternal-infant bonding

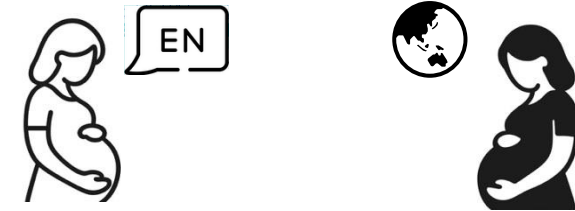
Treatment

- Conservative measures
- Definitive treatment: Epidural blood patch (EBP)

Barriers

- Racial and ethnic minority obstetric patients are *less likely to receive EBP* for postdural puncture headache (PDPH)

Aim

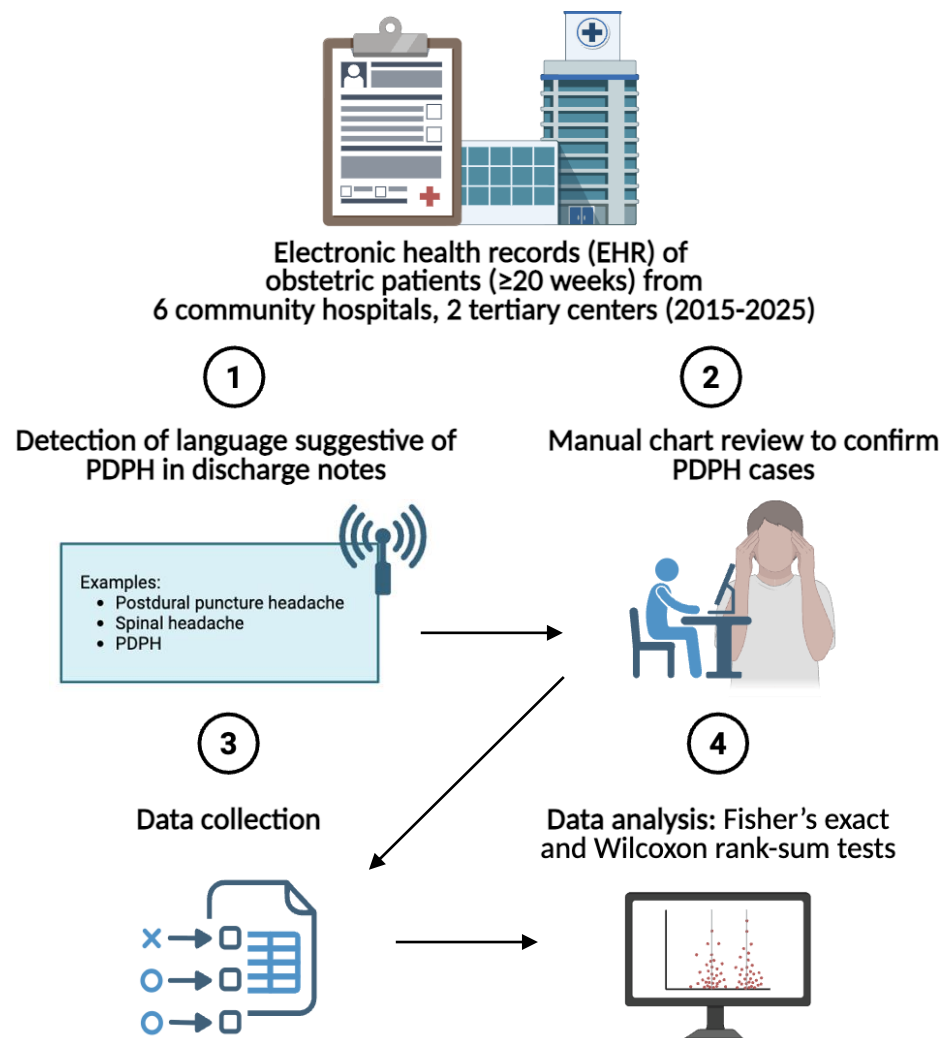


Determine whether **obstetric patients with limited English proficiency (LEP)** experience **differences in PDPH management** compared with non-LEP patients

References

Vallejo & Zakowski. Best Pract Res Clin Anaesthesiol. 2022.
Armstrong S et al. Curr Opin Anaesthesiol. 2024.
Lee A et al. JAMA Netw Open. 2022.
Potnuru PP et al. Anesth Analg. 2024.

Methods



Exposure

- Preferred language as indicated by EHR
- Non-LEP: English
 - LEP: non-English

Primary Outcome

- Receipt of EBP

Secondary Outcomes

- Time (hours) from neuraxial procedure to first EBP
- Duration (days) of and number (n) of anesthesia follow-up
- Repeat EBP (≥ 2)

Results

Total of 556 obstetric patients with PDPH

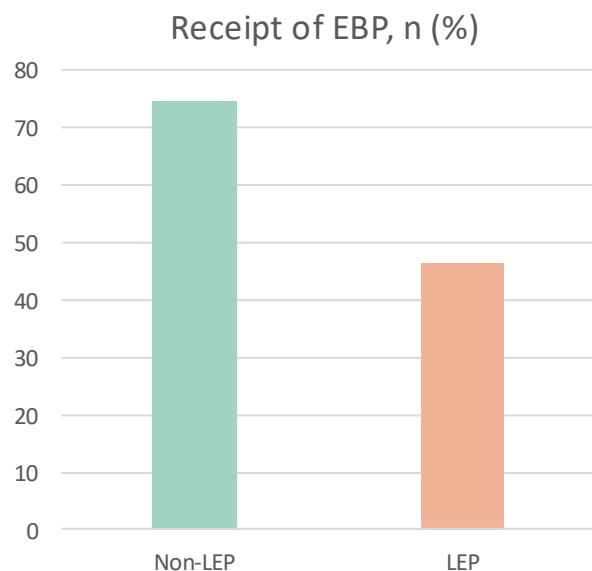
Non-LEP (n=500)

LEP (n=56)

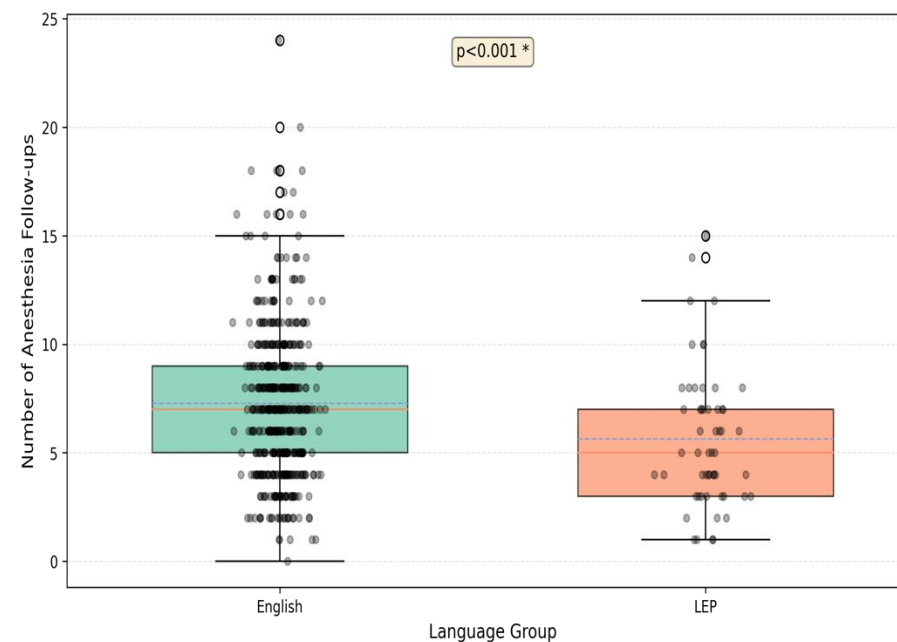
Compared to non-LEP, LEP patients had...



70% lower odds of receiving EBP



shorter and less anesthesia follow-up care



Conclusion & Discussion



Obstetric patients with **limited English proficiency** received **suboptimal management** for PDPH



Limitations include EHR inaccuracies, incomplete diagnostic capture, and residual confounding



Targeted interventions to improve **language-concordant care** and **standardized PDPH pathways** are needed