

Racial and Ethnic Disparities in Modes of Anesthesia for Cesarean Delivery Among American Indian and Alaskan Native Patients

Background and Hypothesis

Neuraxial is the gold standard anesthetic modality for cesarean deliveries (CD)

Lower:

- Maternal morbidities
- Maternal blood loss
- Fetal ICU admission

Higher:

- Maternal satisfaction

(1,2)

Research shows Hispanic/Latinx and Non-Hispanic Blacks are more likely to undergo general anesthesia during CDs (3)

Likely to undergo higher delivery related complications

Research suggestions- exploring disparities for underrepresented ethnic groups (4)

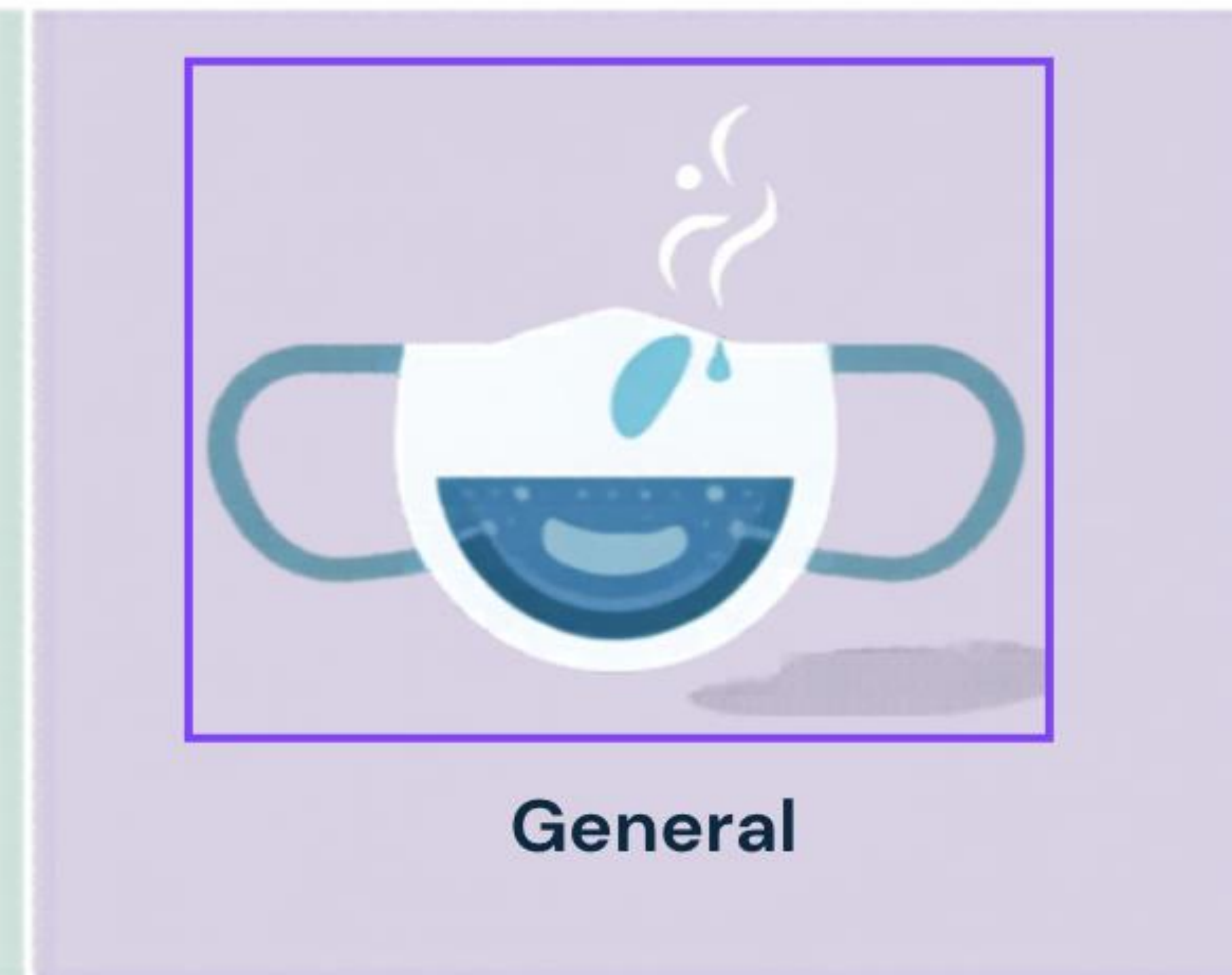
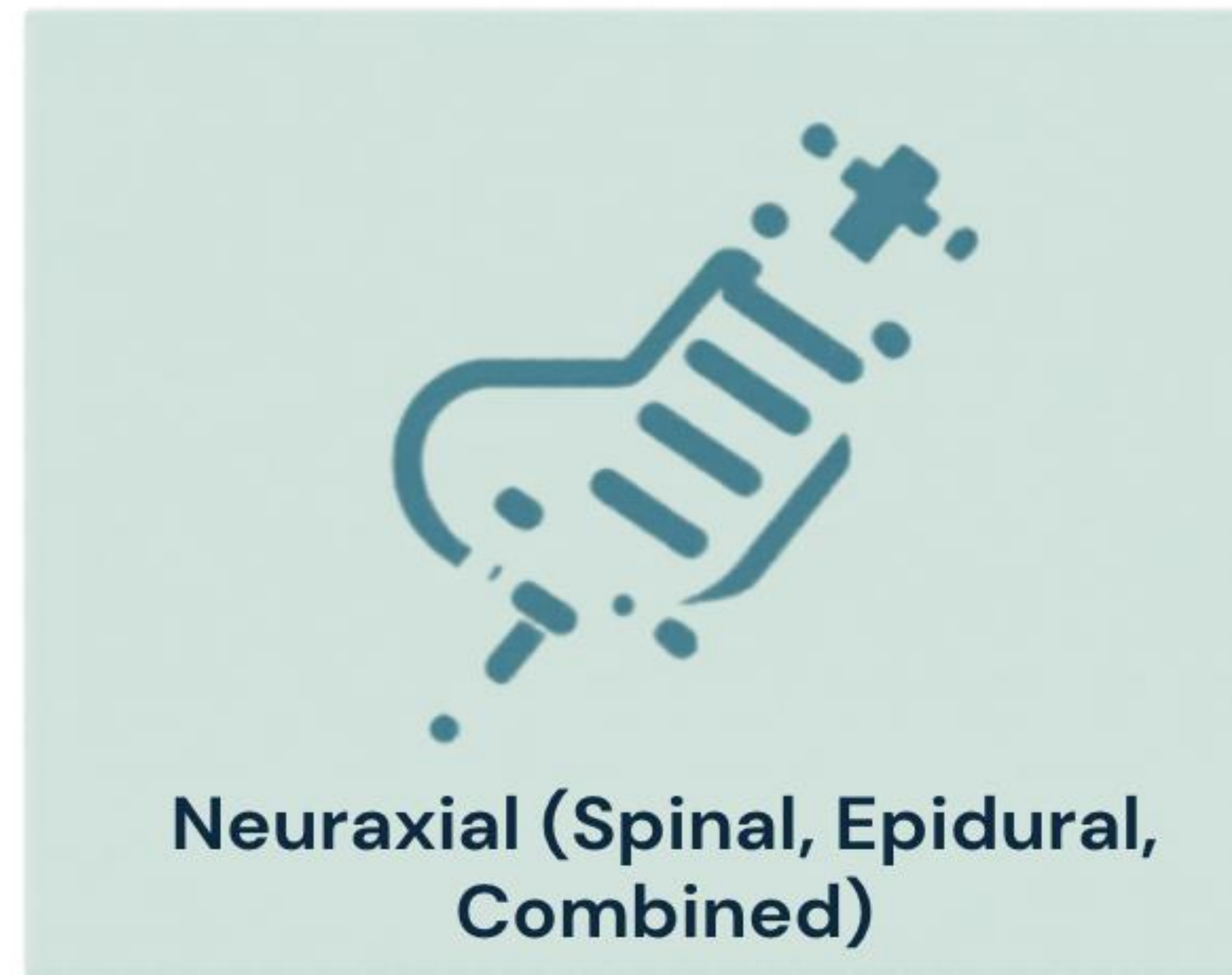
UNMH has a large AI/AN population

Our goal: Understand the modes of anesthesia for AI/AN undergoing CD

1. Ring L *Curr Anesthesiol Rep*. 2021;11(1):18-27.
2. Afolabi BB *Cochrane Database Syst Rev*. Oct 2012;10(10):CD004350.
3. Lee W *Can J Anaesth* 2023;70(6):1035-1046.
4. Butwick AJ, *Anesth Analg*. 2016;122(2):472.

Study Design and Methods

RETROSPECTIVE COHORT STUDY



Statistical Analysis:



Mode of Anesthesia Compared Across Racial/Ethnic Groups



1. Butwick AJ, *Anesth Analg*. 2016;122(2):472.

Results

	General (n=297)	Neuraxial (n=2882)
American Indian/Alaska Native	51 (9.44%)	495 (90.66%)
Black/African American	14 (11.29%)	110 (88.71%)
Hispanic/Latina	149 (9.35%)	1444 (90.65%)
Non-Hispanic White	66 (10.11%)	587 (89.89%)
Other	17 (6.46%)	246 (93.54%)

Table 1: Anesthesia type categorized by race.

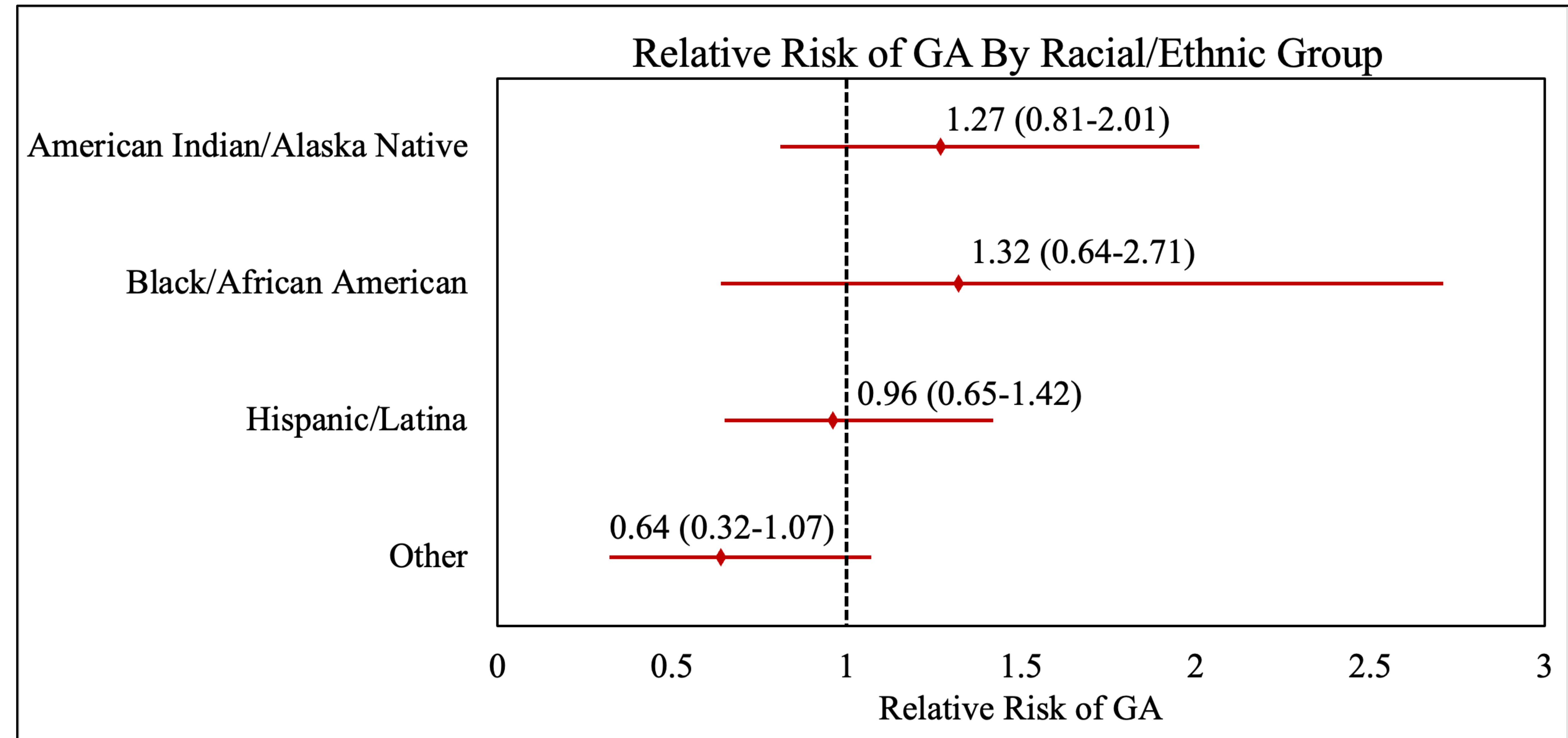


Figure 1: Relative Risk of general anesthesia by race. Reference groups was non-Hispanic white. The effect did not reach statistical significance $p > .05$

Discussion and Conclusion

WHAT WE FOUND

- No statistical differences between anesthesia types and race/ethnicity
- AI/AN and African American patients
 - Higher risk of general anesthesia compared to Non-Hispanic White women

WHAT THIS MEANS

- Literature shows disparities between races
 - Specifically African American and Hispanic women
- **Our data shows a trend towards disparities among underserved populations**

NEXT STEPS

- Larger multi-center studies
- Goal: equitable anesthetic care