

Racial and ethnic concordance between the patient and anesthesia team and patients' satisfaction with pain management during cesarean delivery

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Background:

- Patient-provider racial & ethnic concordance (sharing racial & ethnic identity), associated with higher patient satisfaction
- Pain during cesarean delivery results in patient dissatisfaction & traumatic birth experience
- **Aim:** evaluate association of patient-provider concordance on patient satisfaction with intraoperative pain management

Methods:

- Post-partum survey about intraoperative anesthesia care (05/2022 – 09/2022)
- All English-speaking patients with cesarean deliveries under neuraxial anesthesia approached
- Patient racial & ethnic identities abstracted from EMR (Epic) & recorded for providers (attending/resident/fellow/CRNA)
- Excluded cases: fetal/neonatal demise, unplanned intra-operative hysterectomy, general anesthesia only

Results

N = 403 cesarean deliveries

High Satisfaction: 78% of patients “very satisfied”; 88% would want the same team again

Low Concordance (full: 4.5%, partial: 29.0%); no association with satisfaction or wanting the same team

Risk Factors for not being “very satisfied”:

- Self-reported pain ($p < 0.001$)
- Unplanned IV medication ($p = 0.001$)
- Having 3 anesthesia team members versus 2 ($p = 0.008$)
- Conversion to general anesthesia ($p = 0.043$)
- Intrapartum epidural with ≥ 2 top-ups during labor ($p = 0.006$)
- Anxiety ($p = 0.039$)
- Pregnancy resulting from IVF ($p = 0.029$)

Satisfaction rate according to racial and ethnic concordance between patient and anesthesia team

	Full concordance N=18	Partial concordance N=117	Discordance N=175	Missing N=93
Q1. Very satisfied (yes)	16 (88.9%)	84 (71.8%)	142 (81.1%)	73 (78.5%)
Q2. Same team (yes)	16 (88.9%)	100 (86.2%)	159 (92.4%)	83 (89.2%)
Very satisfied & same team (yes)	15 (83.3%)	82 (70.7%)	136 (79.1%)	69 (74.2%)

Results are expressed as count (%).

Q1- “Overall, how satisfied are you with the anesthesia care during the C-section as it relates to pain management?”

Q2 “If you have another C-section, would you want the same anesthesia team?” (yes/no/not sure)

- **Full concordance:** patient identities = all provider identities (attending + resident/ fellow/CRNA, or combination of resident/fellow/CRNA)
- **Partial concordance:** patient identities = at least one provider’s identity (either the attending or resident/fellow/CRNA)
- **Discordance:** patient identities $\neq$ any provider identities (neither the attending nor resident/fellow/CRNA).
- **Missing:** defined when patients' self-reported race or ethnicity in the EMR was either missing or did not allow to establish whether there was concordance with the anesthesia team.

Key Points

- First report of racial & ethnic concordance between anesthesia team & patients in large academic center with great patient diversity
- Low concordance & high satisfaction → inability to identify association between concordance & satisfaction
- **Future Studies:** further examine risk factors for patient satisfaction with anesthesia care