



What Drives Opioid Prescribing After Panniculectomy?

A Closer Look At Patient, Provider, And Procedural Factors

Meeti Mehta, BS; Adaora Okigbo, BS; Aileen Cui, BS; Jeffrey Gusenoff, MD; J. Peter Rubin, MD, MBA

The Department of Plastic Surgery, University of Pittsburgh, Pittsburgh, Pennsylvania



BACKGROUND

- There are significant variations in opioid prescribing patterns as we seek to optimize postoperative pain management while reducing risk of opioid misuse.
- This study aims to identify factors that influence the total daily opioid dose prescribed postoperatively in panniculectomy patients.

METHODS

Inclusion Criteria

- Panniculectomy for MWL
 - Postoperative opioid data
 - 2022-2024
- Multivariate regression analysis, controlling for confounders (age, sex, race, preop opioid use, preop BMI, diabetes, smoking, drain count, procedure duration, tissue weight, postop complications).
 - Average opioid duration: 4 days
 - Average total daily opioid dose: 33

Total daily opioid dose = Dose x Frequency x MME

Drug	Morphine Milligram Equivalents (MME)	Cohort Frequency
Oxycodone	1.5	87%
Percocet	1.5	2%
Hydrocodone	1	2%
Tramadol	0.1	5%

Figure 1. Opioid characteristics.

RESULTS

Figure 2. Demographic factors & opioid prescriptions.

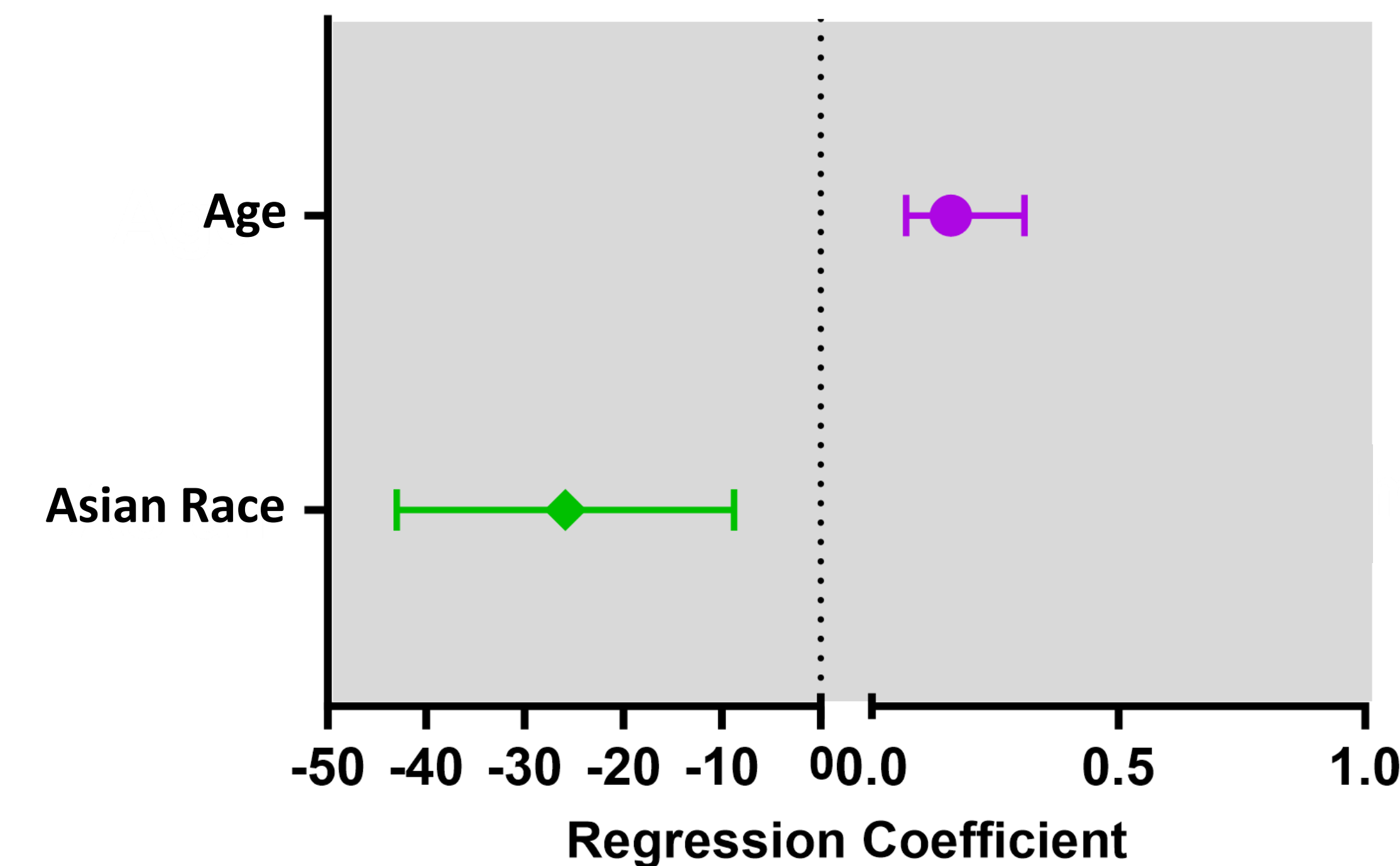


Figure 3. Clinical factors & opioid prescriptions.

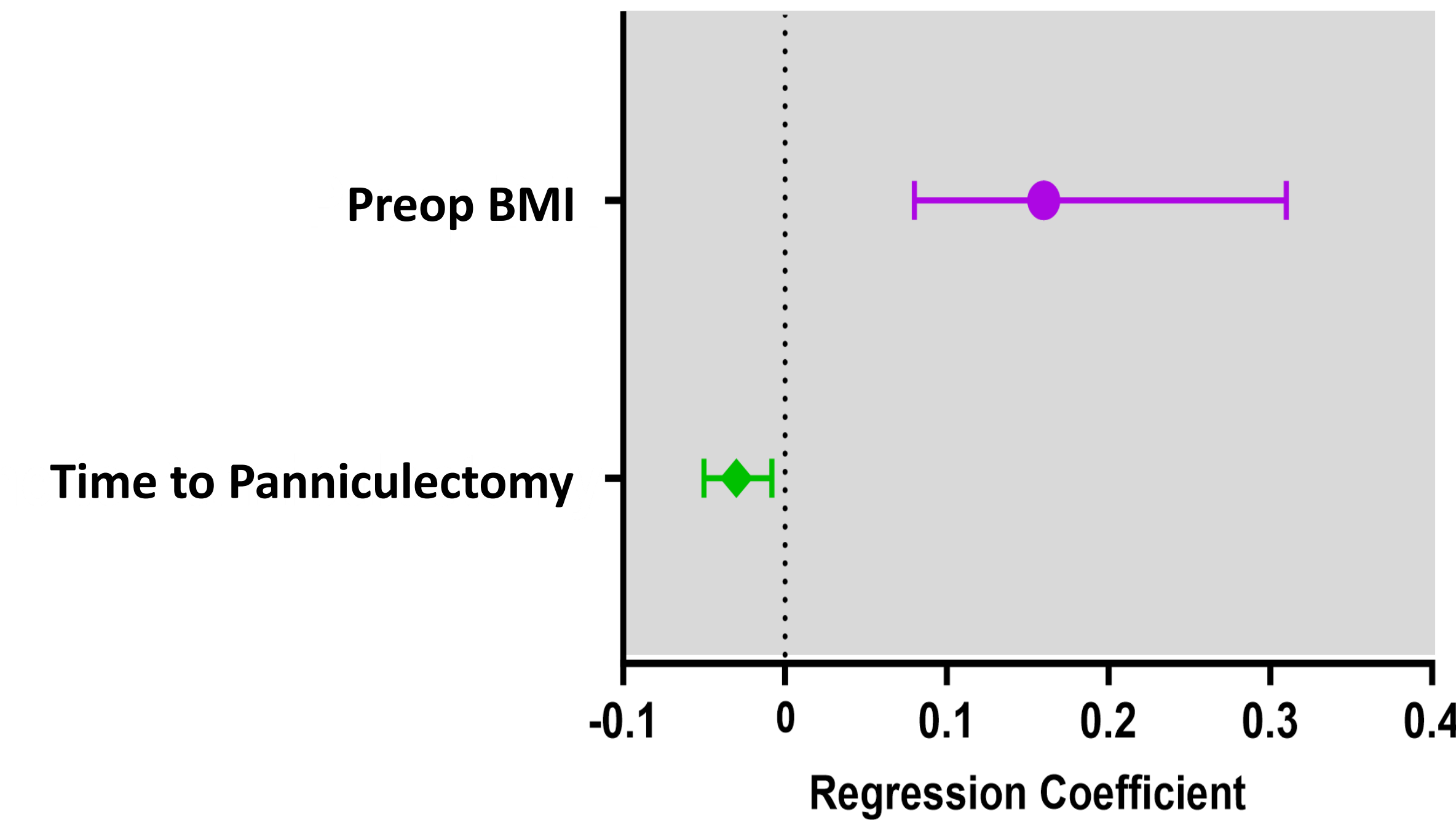
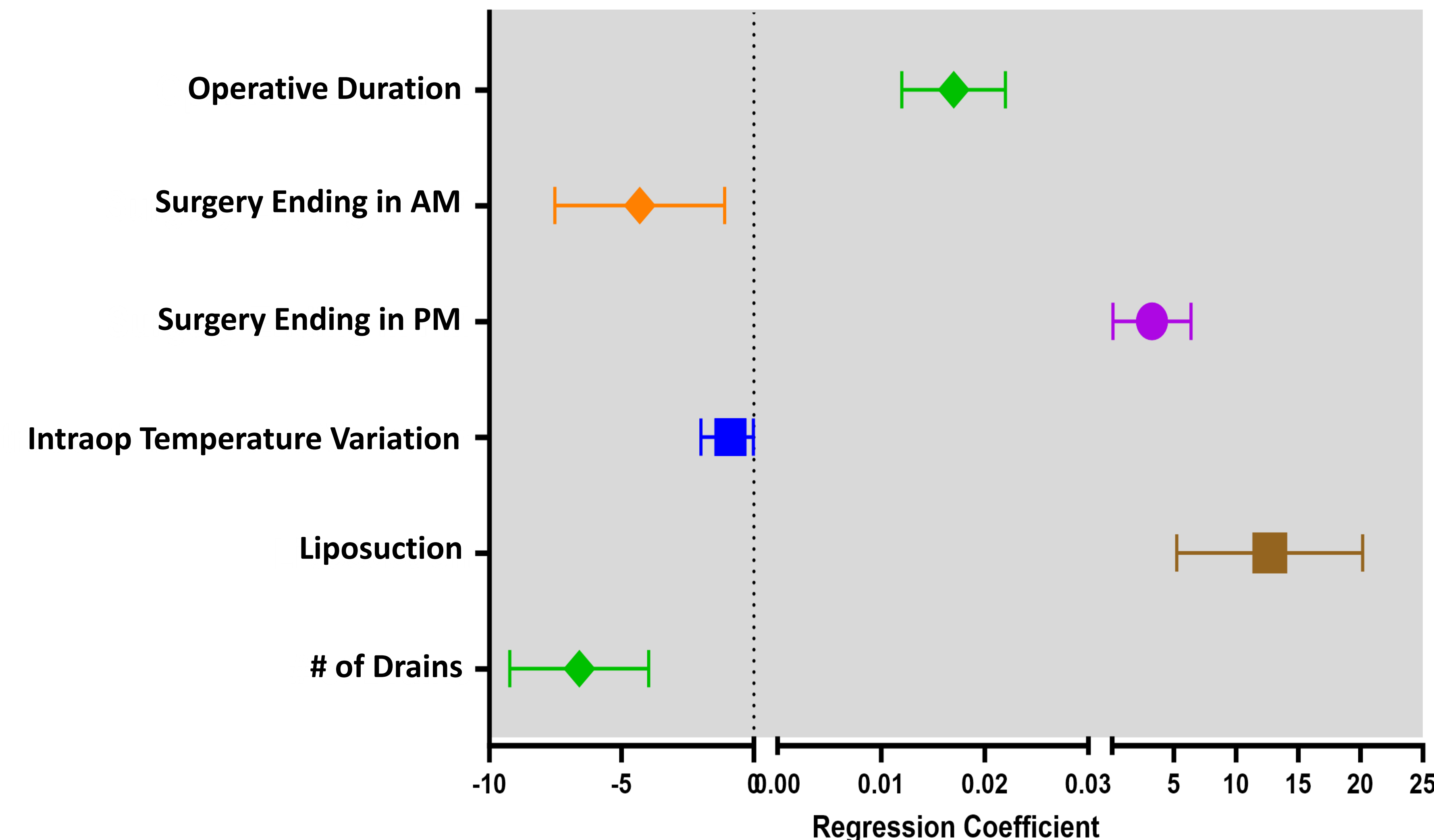


Figure 4. Procedural factors & opioid prescriptions.



RESULTS

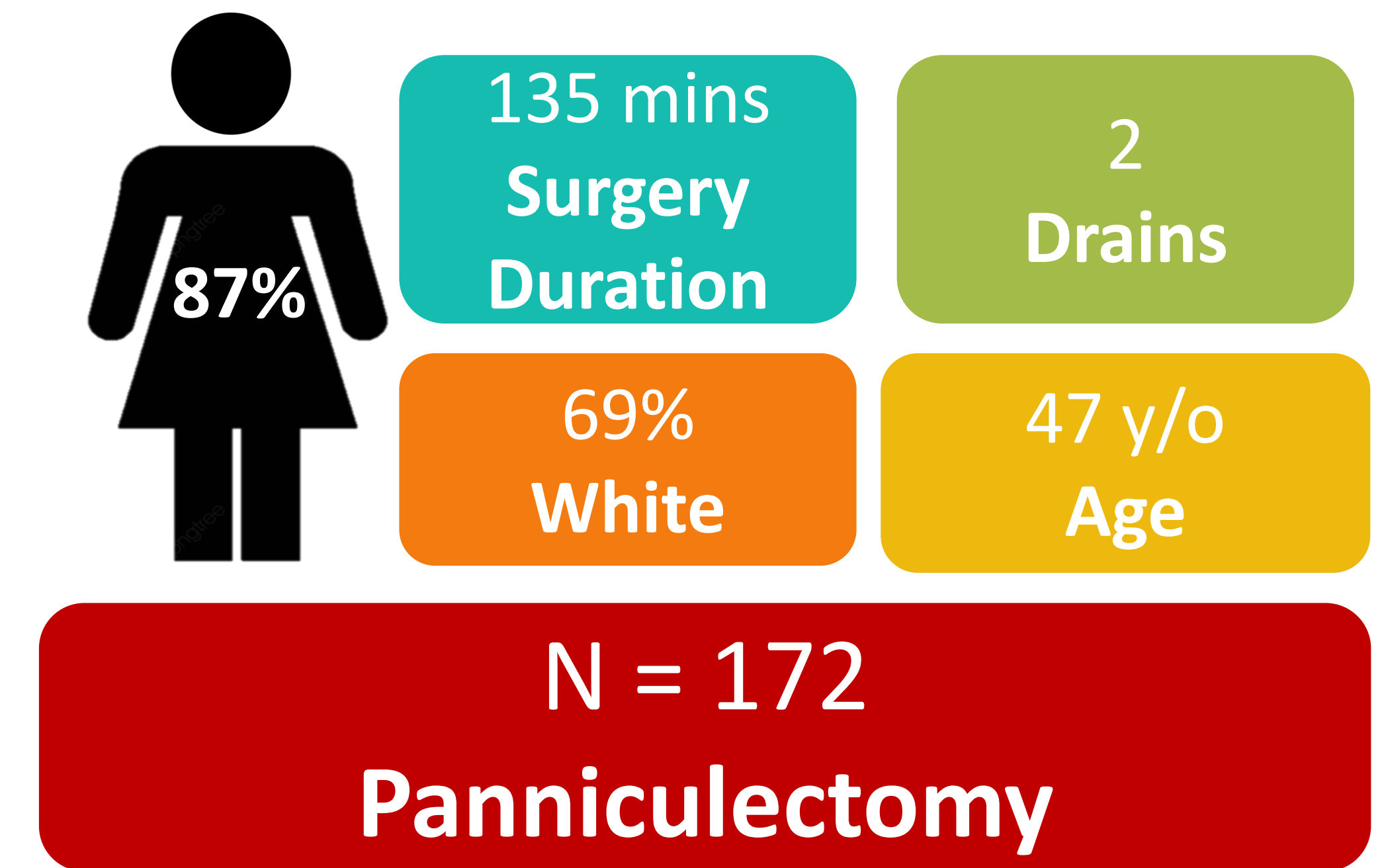


Figure 5. Cohort demographics.

- Factors linked to MORE opioids prescribed:**
 - Older age
 - Higher preop BMI
 - Longer operative time
 - Liposuction
 - PM surgeries
- Factors linked to LESS opioids prescribed:**
 - Asian race
 - Longer time between bariatric surgery & panniculectomy
 - More surgical drains
 - AM surgeries
 - Greater intraop temp variation

CONCLUSIONS

- Demographic, clinical, & procedural factors influence opioid prescribing patterns.**
- Awareness can inform objective, evidence-based opioid prescribing to optimize pain management while reducing opioid-related complications.