



# Analgesia for SUD Patients Using Opioid Sparing Medications

Jason Mitchell, BSN, RN, SRNA

## PURPOSE

### PRIMARY AIM

-Assess provider confidence for using opioid sparing anesthesia when treating patients with active SUD or recovering from SUD

### SECONDARY AIM

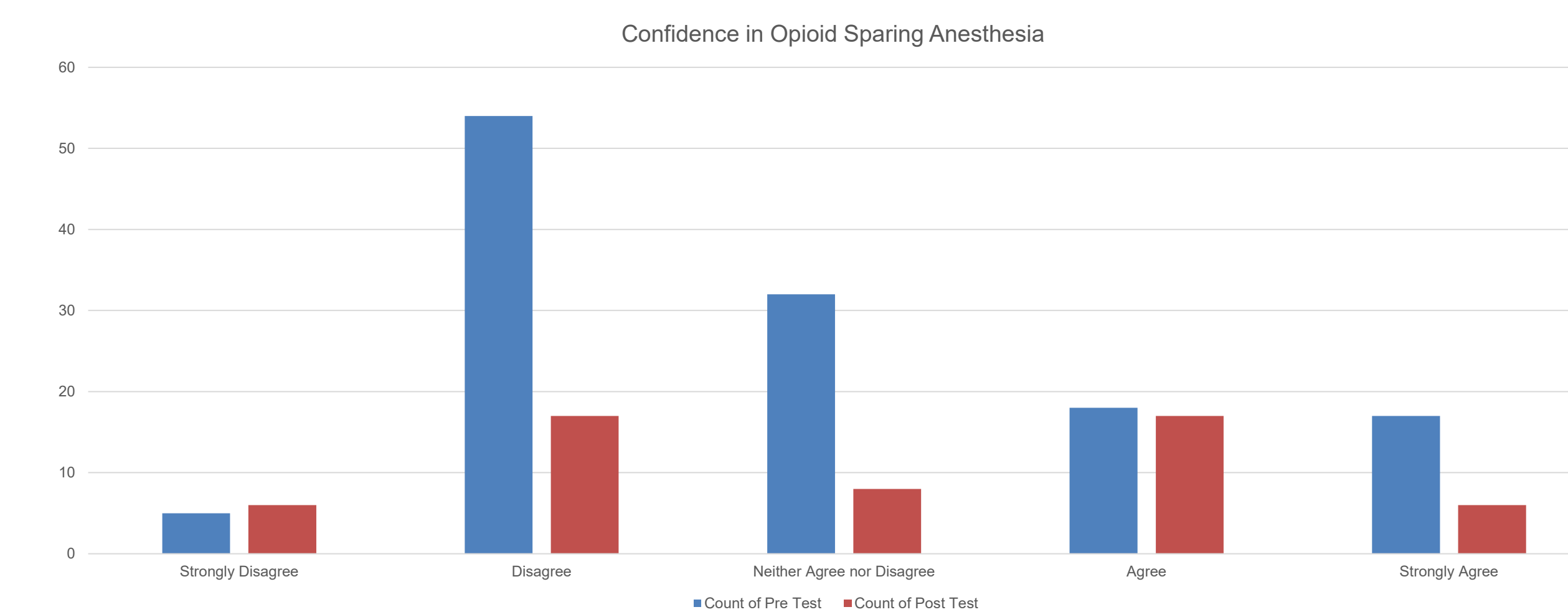
-Identify possible barriers to implementing opioid-sparing anesthesia techniques perioperatively  
-Identify if anesthesia providers believe opioid sparing medications provide adequate analgesia for SUD patients  
-Develop educational module, protocol, and opioid sparing tool for anesthesia providers to use for patients with SUD

## BACKGROUND & RESEARCH

-Opioid abuse is a national epidemic that accounted for an estimated 80,000 deaths in 2021  
-16,000 deaths from prescription opioid overdoses  
-An estimated 1 in 16 surgical patients become chronic opioid users  
-An estimated 22 million Americans are currently in the recovery process of substance use disorder  
-Many of these people will need surgery at some point in their lifetime, and will require pain control perioperatively  
-Unwanted perioperative side effects of opioid administration include; nausea, vomiting, respiratory depression, pruritus, urinary retention, excessive sedation, ileus, hyperalgesia, and immunosuppression, and increased hospital stays

## METHOD

-Quantitative pre/post intervention evidence-based project.  
-Convenience sampling of 30 anesthesia providers at a suburban hospital that offers 10 operating rooms, 2 procedure rooms, 1 cystoscopy room with surgical services ranging from general surgery to plastics, ortho, and cardiovascular.  
-Likert scale pre and post surveys  
-Questions ranged 1-5 with 1 representing strongly disagree and 5 representing strongly agree  
-Pre surveys were emailed prior to in educational session  
-Presentation provided in person and opioid-sparing reference tool was provided  
-Post presentation surveys then sent with gift cards provided for completion  
-Independent t-test data analysis



## RESULTS

-No significant difference (p-value = 0.615) between overall pre-test and post test data  
-Perceived limited exposure to SUD patients was a factor for anesthesia providers  
-No significant difference (p-value= 0.829) between pre and post test surveys if providers felt opioid sparing anesthesia would help to provide analgesia for patients with active SUD  
-No significant difference (p-value = 0.332) between pre and post surveys if providers felt opioid sparing anesthesia would help to provide analgesia for patients recovering from SUD

## DISCUSSION

-Low participation retention from pre to post survey (47%)  
-No significant results  
-Most participants did not feel as though they cared for patients with SUD frequently  
-Some participants noted that they do not utilize opioid sparing techniques frequently  
-Participants believed the presentation and reference guide were educational

## CONCLUSIONS

-Future education should consider cost for adjunct medications as a factor for provider usage  
-Future research should include regional anesthesia as an option for opioid sparing techniques to limit opioid usage  
-Future education should include more in-person presentation sessions to encourage participation retention

PRE-OPERATIVE	INTRA-OPERATIVE		POST-OPERATIVE
Consider Regional or Local Anesthetics	Induction	Maintenance	Ondansetron 0.15mg/kg -> 8mg
Acetaminophen 15mg/kg -> 1000mg PO/IV	Ketamine 0.3-0.5mg/kg	0.25mg/kg/hr	Ketorolac 0.5mg/kg -> 30mg (if other NSAIDs not given)
Celecoxib 6mg/kg -> 400mg PO	Lidocaine 1mg/kg	1.5mg/kg/hr	Standard post-operative medications
Pregabalin 5mg/kg -> 150mg PO	Decadron 0.2mg/kg	N/A	
<b>OR</b>	Dexmedetomidine 0.5-1mcg/kg	0.4mcg/kg/hr	
Gabapentin 15mg/kg -> 600mg PO	Magnesium 30mg/kg -> 2g single dose	<b>OR</b> 5-20mg/kg/hr	

### REFERENCES

