

Effects of Intraoperative Ketamine on Mood and Pain in Patients With Inflammatory Bowel Disease Undergoing Colectomy

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Introduction

15.2% of patients with inflammatory bowel disease (IBD) suffer from depression [1], approximately three times the national average of 4.7% [2]

Comorbid depression in patients with chronic medical disorders is associated with increased risk of morbidity and mortality, increased medical costs, and poor adherence to self-care regimens [3]

Can ketamine’s intraoperative use be beneficial in both reducing both pain and improving mood scores in this at risk population?

Methods

Single-site retrospective database analysis of responses to the RAND questionnaire [4]

Results

Responses from 251 patients met all inclusion criteria

Intraoperative ketamine usage was associated with worse mood scores (β =0.39, P = 0.022)

Intraoperative ketamine usage was associated with increased interference with normal work (question 3) and with social activities (question 8)

Greater time between surgery and survey administration was associated with better mood scores for all questions (P < 0.001)

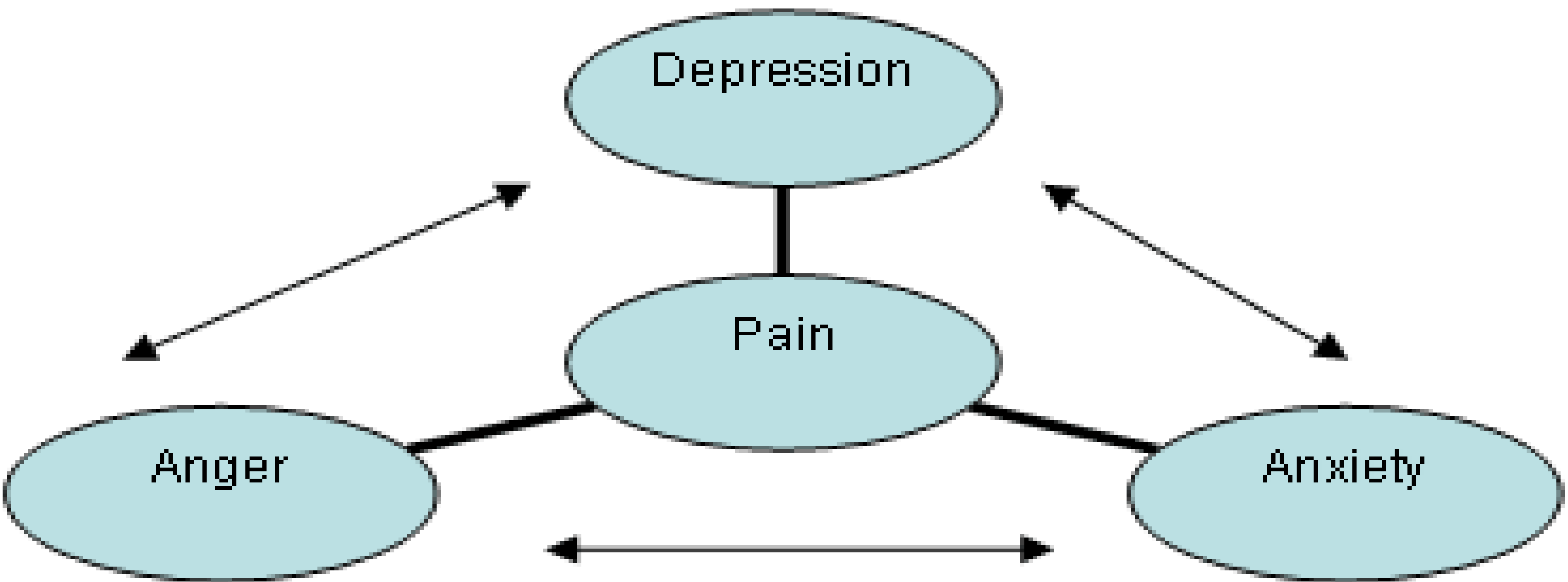
Discussion

How can we develop anesthetic plans aimed at minimizing pain and improving mood?

Can one time doses of medications make an impact?

Would infusions have a greater impact?

What is our role in advocating for surgeries to take place?



References

1. Neuendorf, R., Harding, A., Stello, N., Hanes, D., & Wahbeh, H. (2016). Depression and anxiety in patients with Inflammatory Bowel Disease: A systematic review. *Journal of psychosomatic research*, 87, 70–80. <https://doi.org/10.1016/j.jpsychores.2016.06.001>
2. CDC. (2023). *FastStats - Depression*. Centers for Disease Control and Prevention. <https://www.cdc.gov/nchs/fastats/depression.htm>
3. Katon W. J. (2011). Epidemiology and treatment of depression in patients with chronic medical illness. *Dialogues in clinical neuroscience*, 13(1), 7–23. <https://doi.org/10.31887/DCNS.2011.13.1/wkaton>
4. Rand Corporation. (2019). *36-Item short form survey instrument (SF-36)*. Rand.org. https://www.rand.org/health-care/surveys_tools/mos/36-item-short-form/survey-instrument.html

		1	2	3	4	5	6
1	During the past 4 weeks, to what extent has your physical health or emotional problems interfered with your normal social activities with family, friends, neighbors, or groups?	Not at all	Slightly	Moderately	Quite a bit	Extremely	
2	How much bodily pain have you had during the past 4 weeks?	None	Very mild	Mild	Moderate	Severe	Very Severe
3	During the past 4 weeks, how much did pain interfere with your normal work (including both work outside the home and housework)?	Not at all	Slightly	Moderately	Quite a bit	Extremely	
4	How much of the time during the past 4 weeks did you feel full of pep?	None of the time	A little of the time	Some of the time	A good bit of the time	Most of the time	All of the time
5	How much of the time during the past 4 weeks have you been a very nervous person?	None of the time	A little of the time	Some of the time	A good bit of the time	Most of the time	All of the time
6	How much of the time during the past 4 weeks have you felt so down in the dumps that nothing could cheer you up?	None of the time	A little of the time	Some of the time	A good bit of the time	Most of the time	All of the time
7	How much of the time during the past 4 weeks have you felt downhearted and blue?	None of the time	A little of the time	Some of the time	A good bit of the time	Most of the time	All of the time
8	During the past 4 weeks, how much of the time has your physical health or emotional problems interfered with your social activities (like visiting with friends, relatives, etc.)?	None of the time	A little of the time	Some of the time	A good bit of the time	All of the time	