

Where the world comes for answers

Background

Massachusetts legalized cannabis use for both medical and recreational use in 2014. Since then, adolescent recreational and medicinal use of cannabinoids has increased. In the summer of 2016, it was noted there were an increased number of requests, by surgical nationts in the Postonarative Anasthasia Care I Init

patients in the Postoperative Anesthesia Care Unit		Literature Review		
(PACU) as to when they could resume using cannabis.		Author(s)	Year	Findings
This lead us to question our current practice. Collecting the Evidence		Meeker, J., Ayrian, E., &	2020	 LEVEL 2 A-B States with marijuana legalization have noticed an increation overdose mortality. Challenges with application of cannabinoids for pain marity
Evidence Database Search	Pub med, CINAHL, Google Scholar, Cochrane Data Base	Mariano, E.		 varied heterogeneity including over 100 active cannabing 500 chemical compounds in cannabis plants. There is insufficient data to support the use of cannabing in the post operative period.
Total Electronic Search Yields	23 articles			
Search Terms	Cannabis, marijuana, postoperative pain, cannabinoids, preoperative care, pain, tetrahydocannabinol (THC), acute pain, adolescents, young adults	Liu, et al.	2019	 LEVEL 3 A-B Patients (pts.) on cannabinoids had significantly higher paper of poorer quality of sleep in the early postoperative period in with no reported history of cannabinoid use.
		Ladha, et al.	2020	 LEVEL 3 B Weaning cannabis 7 days before surgery if using 2-3X/ d
Exclusion Criteria	Literature older than 5 years, non- English, literature that looked at the efficacy of cannabinoids in pain management			 adverse outcomes during anesthesia. Postoperative opioid requirement may be higher in pts us Pts may require more anesthesia to achieve depth of ane Cannabis withdrawal syndrome (CWS) was noted in patie include: irritability, anger, anxiety, insomnia, decreased ap restlessness and altered mood. Physical symptoms inclu
Number Included	13			chills and abdominal pain.
Number Excluded	10	Bauer, et al.	2018	 Level 3-B Perioperative opioid requirements were significantly high (MJ) user group (despite lower subjective pain scores). The difference in opioid requirements suggests an intera
Evidence Critique Tool	John's Hopkins Evidence Based Practice Tool			
Hierarchy of Evidence Tool				use and opioid tolerance or pain threshold.
Level 2	1	Clinical E	xpertis	
Level 3	7	Expert Jean Solodiuk, PhD, CPNP, Pain Treatment Service		Findings
Level 5	5			 The relationship between MJ use and pain management and some patients use MJ for treatment of undiagnose Type, reason for use and quality of MJ use can impact patients.
Clinical Experts	Jean Solodiuk, Pain Treatment Service			



Implications of Peri-Operative Cannabis Use In Adolescents and Young Adults

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Clinical Practice Question

In adolescents and young adults (AYA) (P) does the habitual use of marijuana (I) vs. no (C) use increase the need for pain management interventions postoperatively (O)?

Key Sources of Evidence

eased risk in opioid

nanagement include inoids in plants and

noids for acute pain

pain scores and in comparison to pts

day may reduce

using cannabis. nesthesia. atients. Symptoms appetite, clude sweating, fever,

gher in the marijuana

raction between MJ

nent is multifactorial sed anxiety t postoperative pain

Critical Appraisal of the Evidence

- The evidence was of good quality, however there are conflicting findings
- All research appraised was non-experimental observational studies
- There is a paucity of adolescence and young adult literature related to the use of MJ in the postoperative setting
- Adolescent and young adult research is warranted

Translating Evidence into Practice

The evidence will be used to educate PACU nurses on how to best screen for cannabis use and postoperative care considerations in the PACU setting. Considerations for PACU nurses include the importance of eliciting and quantifying a history of cannabis use, consideration of cannabis weaning, additional postoperative nausea vomiting prophylaxis, anticipated increased postoperative analgesic requirements and maintaining vigilance for cannabis withdrawal syndrome.

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> For references please scan here:







