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Randomized Controlled Trial

Wavelet and pain rating index for inhalation anesthesia: A randomized controlled trial

WLi and PRi for the depth of sevoflurane anesthesia

Abstract

BACKGROUND

Wavelet index (WLi) and pain rating index (PRi) are new parameters for regulating general anesthesia depth based on wavelet analysis.

AIM

To investigate the safety and efficacy of using Wavelet index (WLi) or pain rating index (PRi) in sevoflurane anesthesia.

METHODS

This randomized controlled trial enrolled 66 patients scheduled for elective posterior

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Importance: Minor adverse effects related to **anesthesia** are common and worrisome to patients, including perioperative vomiting, gagging on the endotracheal tube, incisional **pain**, and nausea. A previously published intravenous **anesthesia** protocol reports extremely low rates of postoperative nausea and vomiting (<1%) and decreases in postoperative **pain** perception compared with rates ...

[A Systematic Review of Postoperative Pain Outcome ...](#)

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Jul 29, 2018 · 1. Introduction. Regional **anesthesia** is a rapidly growing subspecialty, with a widening spectrum of applications and uses. Despite growth in this area of research, there have been few published regional **anesthesia** systematic reviews, meta-analyses, Cochrane reviews, or National Institute for Health and Care Excellence (NICE) guidelines exploring **pain** outcomes.

Cited by: 2

Author: E. Pushpanathan, T. Setty, B. Carvalho, P...

Publish Year: 2018

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6200536>

Oct 05, 2018 · Methods: Eighty-four patients (20–80 years old) undergoing elective vitrectomy under general **anesthesia** were **randomized** into 2 groups. The propofol group received propofol and remifentanyl using effect-site target-controlled infusion (TCI), and the desflurane group received desflurane **inhalation** and remifentanyl using effect-site TCI.

Cited by: 1

Author: Se Hee Na, Kyu Hee Jeong, Dahae Eum,...

Publish Year: 2018

[Anesthesia and Circulating Tumor Cells in Primary Breast ...](#)

<https://anesthesiology.pubs.asahq.org/article.aspx?articleid=2766266> ▾

Methods: The parallel, **randomized controlled trial** was conducted in two centers in Switzerland. Patients aged 18 to 85 yr without metastases and scheduled for primary breast cancer surgery were eligible. The patients were randomly assigned to either sevoflurane or propofol **anesthesia**. The patients and outcome assessors were blinded.

Author: Frédérique Hovaguimian, Julia Braun, ...

Publish Year: 2020



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Placebo, ketamine (0.5 mg/kg) plus placebo, or ketamine (0.5 mg/kg) plus magnesium (3,000 mg) was administered intravenously over 30 min in a **random** order. Average daily **pain** intensity was assessed on a 0 to 10 numeric **pain rating** scale once a day for 35 days after placebo or drug administration.

Intravenous Anesthesia With Bispectral Index Monitoring vs ...

<https://pubmed.ncbi.nlm.nih.gov/25906190>

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Cited by: 4

Author: Kristin A. Jones, Keith A. LaFerriere

Publish Year: 2015

Total intravenous anesthesia vs inhaled anesthetic for ...

<https://pubmed.ncbi.nlm.nih.gov/30198644>

Methods: This study was a double-blind, **randomized, controlled trial** of 30 patients of American Society of Anesthesiologists (ASA) class 1 or 2 undergoing bilateral ESS for the primary diagnosis of chronic rhinosinusitis. In addition to standard techniques to minimize blood loss, study patients were **randomized** to maintenance **anesthesia** with ...

Cited by: 4

Author: Michael Little, Victor Tran, Angelo Chiarella,...

Publish Year: 2018

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Cited by: 4 **Author:** Michael Little, Victor Tran, Angelo Chiarell...

Publish Year: 2018

[Nociception-guided versus Standard Care during ...](#)

<https://pubs.asahq.org/anesthesiology/article/130/...> ▾

Multiple factors have improved the quality of **anesthesia** over the last decades, including the adoption of state-of-the-art monitoring during surgery. 1 One type of monitor that is currently not part of standard clinical care is nociception monitoring. Nociception is defined as the neural process of encoding and processing noxious stimuli (noxious stimuli are actually or potentially tissue ...

[Greater Incidence of Emergence Agitation in Children after ...](#)

<https://pubs.asahq.org/anesthesiology/article/109/...> ▾

Statistical aggregation of **randomized** trials through meta-analysis allows for increased power to detect potential differences in clinical outcomes. In this report, we performed a meta-analysis of **randomized controlled** trials to compare the incidence of emergence agitation in children after sevoflurane or halothane **anesthesia**.