



Excellence in clinically related research and knowledge • L'excellence de la recherche et du savoir au service du clinicien

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Reports of Original Investigations

Pre-treatment with morphine does not prevent the development of remifentanyl-induced hyperalgesia
C. McDonnell, C. Zaarour, R. Hull, P. Thalayasingam, C. Pehora, J. Abier, M.W. Crawford 813

To determine the effect of pre-treatment with morphine on remifentanyl-induced hyperalgesia, we evaluated postoperative morphine consumption in adolescents who received either a bolus of intravenous morphine, or placebo, before initiation of remifentanyl infusion for scoliosis surgery. Pre-treatment with morphine did not decrease initial 24-hr postoperative morphine consumption or pain scores.

Fluid resuscitation in the management of early septic shock (FINESS): a randomized controlled feasibility trial
L.A. McIntyre, D. Fergusson, D.J. Cook, N. Rankin, V. Dhingra, J. Granton, S. Magder, I. Stiell, M. Taljaard, P.C. Hebert, for the Canadian Critical Care Trials Group 819

This pilot randomized controlled fluid resuscitation trial in early septic shock evaluated feasibility measures. The ability to recruit patients was below expectations, although blinding of study fluids was adequate, and resuscitation algorithms were acceptable to most physicians. These results may help investigators in the design of future resuscitation trials.

N-acetylcysteine to reduce renal failure after cardiac surgery: a systematic review and meta-analysis
F. Naughton, D. Wijesundera, K. Karkouti, G. Tait, W.S. Beattie 827

This study reports the results of a systematic review and meta-analysis of the randomized controlled trials utilizing N-acetylcysteine (NAC) in cardiac surgery requiring cardio-pulmonary bypass, to determine the effect of NAC on acute kidney injury. The analysis did not find that treatment with NAC was associated with clinical renal protection during cardiac surgery, or improvement in other clinical outcomes.



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Hypocapnia prolongs bradycardia induced by bupivacaine or levobupivacaine in isolated rat hearts

T. Mochizuki, S. Sato

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Severe hypocapnic alkalosis prolonged the recovery of heart rate from bupivacaine or levobupivacaine-induced bradycardia, using an isolated rat heart model. When bradycardia occurs after intravascular bupivacaine or levobupivacaine administration, maintenance of normocapnia may minimize the duration of bradycardia.

Review Article

Filtration et adsorption plasmatiques couplées : principe et perspectives dans le traitement du choc septique [Coupled plasma filtration adsorption: rationale and perspectives in septic shock]

M. Page, T. Rimmelé

847

La technique de filtration et adsorption plasmatiques couplées est une méthode d'épuration extracorporelle dont le but est d'adsorber les médiateurs inflammatoires libérés au cours du choc septique. Les études montrent une diminution des taux de cytokines, mais l'amélioration du pronostic vital n'a pas été établie.

Special Article

Canadian contributions to the introduction and use of divinyl ether

B.T. Finucane

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This article highlights the unique Canadian contributions to advancing the body of knowledge related to the pharmacology of early inhaled anesthetic agents. The pioneering work of Drs. Samuel Gelfan and Irving Bell, related to the initial evaluation of divinyl ether in humans, is reviewed. Dr. Wesley Bourne's contributions to the use of this historically important inhaled anesthetic in clinical anesthesia, in Canada and the United States, is described.

From the Archives

The relation of plasma cholinesterases to response to clinical doses of succinylcholine
 (Can Anaesth Soc J 1956; 3: 22-32)

W. Kalow

859

This manuscript, written by Dr. Werner Kalow over a half century ago, has been reproduced from the *Journal* archives. The paper is of historical significance, as it describes Dr. Kalow's early observations of atypical responses to succinylcholine administration in three adult patients. The publication had important implications for future research in genomics.



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Continuing Medical Education Module

- Continuing medical education: Ultrasound guidance for regional blockade - basic concepts
B.C.H. Tsui, D. Dillane 869

This continuing medical education module addresses the optimal use of ultrasound technology to perform peripheral regional blocks. The goal of this module is to facilitate an improved understanding of ultrasound technique, so that nerves are localized easily, and common pitfalls are avoided. Various techniques of nerve localization are evaluated. The module includes a case scenario involving a lower extremity block, with multiple choice questions, and online answers.

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