



Anesthesiology



Society for Obstetric Anesthesia and Perinatology

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Jean-Luc Fellahi, Xavier Gué, Xavier Richomme, Emmanuel Monier, Louis Guillou, and Bruno Riou

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Natasha Kraev, Julian C. P. Loke, Alexander Kraev, and David H. MacLennan

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Julian C. P. Loke, Natasha Kraev, Parveen Sharma, GuoGuang Du, Leena Patel, Alexander Kraev, and David H. MacLennan

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Stefan G. De Hert, Stefanie Cromheecke, Pieter W. ten Broecke, Els Mertens, Ivo G. De Blier, Bernard A. Stockman, Inez E. Rodrigus, and Philippe J. Van der Linden

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Using the Time of Maximum Effect Site Concentration to Combine Pharmacokinetics and Pharmacodynamics **324**

Charles F. Minto, Thomas W. Schnider, Keith M. Gregg, Thomas K. Henthorn, and Steven L. Shafer

The time of maximum effect following bolus injection can be directly measured and can be used to link pharmacodynamic models with pharmacokinetic models.

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In this prospective, randomized, open study, propofol and sufentanil administered by computer-controlled infusion were titrated using a predefined algorithm based on Bispectral Index values. The propofol concentrations that resulted in adequate (< 60) Bispectral Index values were unusually low. This probably reflects a pharmacodynamic interaction between propofol and sufentanil on the Bispectral Index values.

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Martijn J. Mertens, Erik Olofsen, Frank H. M. Engbers, Anton G. L. Burm, James G. Bovill, and Jaap Vuyk

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The results of this study demonstrate that thiopental inhibits nuclear factor κ B through a mechanism that involves the inhibition of I κ B kinase activity.

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Lionel J. Velly, Benjamin A. Guillet, Frederique M. Masmajejan, André L. Nieoullon, Nicolas J. Bruder, François M. Gouin, and Pascale M. Pisano

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Hermann Wrigge, Jörg Zinserling, Peter Neumann, Jerome Defosse, Anders Magnusson, Christian Putensen, and Göran Hedenstierna

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Anesthetic Preconditioning: Effects on Latency to Ischemic Injury in Isolated Hearts **385**

Leo G. Kevin, Peter Katz, Amadou K. S. Camara, Enis Novalija, Matthias L. Riess, and David F. Stowe

Isolated guinea pig hearts were exposed briefly to sevoflurane and then subjected to ischemia of varying durations. The protective effect of anesthetic preconditioning on infarct size and contractile function was limited to ischemia durations between 25 and 40 min, whereas vascular function was protected even if ischemia duration was prolonged longer than 40 minutes. This study describes the differential efficacy of anesthetic preconditioning on various aspects of cardiac function.

G-protein Activation Decreases Isoflurane Inhibition of N-type Ba²⁺ Currents **392**

Igor M. Nikonorov, Thomas J. J. Blanck, and Esperanza Recio-Pinto

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The Influence of Hemorrhagic Shock on Propofol: A Pharmacokinetic and Pharmacodynamic Analysis **409**

Ken B. Johnson, Talmage D. Egan, Steven E. Kern, Julia L. White, Scott W. McJames, Noah Syroid, Derek Whiddon, and Ty Church

Hemorrhagic shock produced changes in the pharmacokinetics and pharmacodynamics of propofol.



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Enis Novalija, Leo G. Kevin, Amadou K. S. Camara, Zeljko J. Bosnjak, John P. Kampine, and David F. Stowe

Inhibition of PKC- ϵ but not PKC- δ abolished anesthetic preconditioning in isolated guinea pig hearts. Reactive oxygen species generation during sevoflurane exposure was unaffected by PKC inhibition. This suggests a signaling pathway in which oxidants activate PKC- ϵ to induce anesthetic preconditioning.

■ PAIN AND REGIONAL ANESTHESIA

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Anahi Perlas, Vincent W. S. Chan, and Martin Simons

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Alain Borgeat, Alexander Dullenkopf, Georgios Ekatothramis, and Ladislav Nagy

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◇ Age-dependent Responses to Thermal Hyperalgesia and Mechanical Allodynia in a Rat Model of Acute Postoperative Pain 443

Douglas G. Ririe, Teri L. Vernon, Joseph R. Tobin, and James C. Eisenach

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Interaction between the Spinal Melanocortin and Opioid Systems in a Rat Model of Neuropathic Pain 449

Dorien H. Vrinten, Willem Hendrik Gispen, Cor J. Kalkman, and Roger A. H. Adan

In this study, the authors found that, in a rat model of neuropathic pain, the antiallodynic effects of an intrathecal melanocortin-4 receptor antagonist, SHU9119, could be blocked by naloxone, suggesting an interaction between the spinal melanocortin and opioid systems. Combined treatment with SHU9119 and morphine resulted in an additive antiallodynic effect.

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Franklin Dexter, Ruth E. Wachtel, and Jack C. Yue
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Anil Gupta, Christopher L. Wu, Nabil Elkassabany, Courtney E. Krug, Stephen D. Parker, and Lee A. Fleisher

Meta-analysis of the literature showed that ondansetron 4 mg or combination treatment (> 1 drug) prevented postdischarge nausea and vomiting with a number needed to treat of 13 and 5, respectively.

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Gerald L. Zeitlin and Michael Goerig

Dr. Jean Henley, an American anesthesiologist, traveled to Germany in 1949 on her own initiative and taught modern concepts and techniques of anesthesia at several medical centers. She wrote a textbook of anesthesia practice that was widely used in Germany for a number of years. Although little known in the United States, she is recognized by German anesthesiologists as a contributor to the postwar development of the specialty in Germany.

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