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Lidocaine

effect of ketamine and lidocaine on spontaneous and evoked pain in patients with nerve injury pain (PRA) [Gotttrup et al.], 527
 lidocaine lollipop for awake fiberoptic bronchoscopy (CO) [Ayoub et al.], 1352
 mitigation of direct neurotoxic effects of lidocaine and amitriptyline by inhibition of p38 mitogen-activated protein kinase *in vitro* and *in vivo* (PRA) [Lirk et al.], 1266
 simultaneous bilateral infraclavicular brachial plexus blocks with low-dose lidocaine using ultrasound guidance (CR) [Sandhu et al.], 199
 ultralong peripheral nerve block by lidocaine:prilocaine 1:1 mixture in lipid depot formulation (LI) [Söderberg et al.], 110

Liver function and disease

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Local anesthesia and anesthetics

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 lidocaine lollipop for awake fiberoptic bronchoscopy (CO) [Ayoub et al.], 1352
 mitigation of direct neurotoxic effects of lidocaine and amitriptyline by inhibition of p38 mitogen-activated protein kinase *in vitro* and *in vivo* (PRA) [Lirk et al.], 1266
 perineural infusion of local anesthetics (CCC) [Boezaart], 872
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 simultaneous bilateral infraclavicular brachial plexus blocks with low-dose lidocaine using ultrasound guidance (CR) [Sandhu et al.], 199
 ultralong peripheral nerve block by lidocaine:prilocaine 1:1 mixture in lipid depot formulation (LI) [Söderberg et al.], 110

Lorazepam

lorazepam as independent risk factor for transitioning to delirium in ICU patients (CI) [Pandharipande et al.], 21

Lung function and disease

- comparative effects of vaporized perfluorohexane and partial liquid ventilation in oleic acid-induced lung injury (LI) [Gama de Abreu et al.], 278
- critical role of intraoperative transesophageal echocardiography for detection of extrapulmonary thromboemboli during surgical pulmonary embolectomy (CO) [Nowak et al.], 1346
- devices for lung isolation used by anesthesiologists with limited thoracic experience (CI) [Campos et al.], 261
- effect of the physical properties of isoflurane, sevoflurane, and desflurane on pulmonary resistance in a laboratory lung model (LI) [Nykteri et al.], 1202
- endotracheal tubes: conduit for oral and nasal microbial communities to lungs (EV) [Jacobs et al.], 224
- exogenous lipid pneumonia: steroid therapy and lung lavage with an emulsifier (CR) [Russo et al.], 197
- Gravenstein, Jaffe, Paulus, *Capnography: Clinical Aspects* (EM) [Roy], 895
- increased susceptibility to ventilator-associated lung injury persists after clinical recovery from experimental endotoxemia (LI) [Schreiber et al.], 133
- intravenous anesthetics inhibit capacitative calcium entry into pulmonary venous smooth muscle cells (LI) [Shimizu et al.], 791
- isoflurane increases transendothelial albumin permeability in isolated rat lung (LI) [Hu et al.], 777
- new equal area method to calculate physiologic, anatomical, and alveolar dead spaces (CI) [Tang et al.], 696
- open and closed-circuit endotracheal suctioning in acute lung injury (CI) [Lasocki et al.], 39
- pneumothorax in the intensive care unit (CI) [de Lassence et al.], 5
- protective effects of isoflurane pretreatment in endotoxin-induced lung injury (LI) [Reutershan et al.], 511
- ropivacaine decreases inflammation in endotoxin-induced lung injury (LI) [Blumenthal et al.], 961
- sildenafil for pulmonary hypertension in pregnancy (CO) [Lynch et al.], 382
- statistical prediction of type of gastric aspiration lung injury based on early cytokine/chemokine profiles (LI) [Hutson et al.], 73
- ventilator-associated pneumonia leading to acute lung injury after trauma (CI) [Stéphan et al.], 235

M**Malignant hyperthermia**

- characterization of ryanodine receptor-mediated calcium release in human B cells (LI) [McKinney et al.], 1191
- effects of caffeine, halothane, and 4-chloro-*m*-cresol on skeletal muscle lactate and pyruvate in malignant hyperthermia-susceptible and normal swine (LI) [Bina et al.], 90
- malignant hyperthermia in Japan: mutation screening of ryanodine receptor type 1 gene coding region (CI) [Ibarra et al.], 1146
- perinatal diagnosis of malignant hyperthermia susceptibility (CO) [Girard et al.], 1353

Mechanical ventilation

- another cause for ventilator failure (CO) [Ortega et al.], 1351
- comparative effects of vaporized perfluorohexane and partial liquid ventilation in oleic acid-induced lung injury (LI) [Gama de Abreu et al.], 278
- complications of different ventilation strategies in endoscopic laryngeal surgery (CI) [Jaquet et al.], 52
- dexmedetomidine facilitates withdrawal of ventilatory support (CO) [Stemp et al.], 890
- increased susceptibility to ventilator-associated lung injury persists after clinical recovery from experimental endotoxemia (LI) [Schreiber et al.], 133
- monitoring of propofol in expired alveolar gas during (LI) [Grossherr et al.], 786

Medical education. See also Continuing medical education

- anesthesiology residency programs for physician scientists (EV) [Knight et al.], 1

patient simulator performance as adjunct to oral examination for senior anesthesia residents (CI) [Savoldelli et al.], 475

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safe, low-technology anesthesia system for medical missions to remote locations (CO) [Khambatta et al.], 1354

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Society for Obstetric Anesthesia and Perinatology (RSM), B1 (April)
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Methemoglobinemia

hemoglobin M (Milwaukee), oxygen saturation, and pulse oximetry (CR) [Stucke et al.], 887

Microdialysis

effects of caffeine, halothane, and 4-chloro-*m*-cresol on skeletal muscle lactate and pyruvate in malignant hyperthermia-susceptible and normal swine (LI) [Bina et al.], 90

Midazolam

actions on excitatory transmission in dorsal horn neurons of adult rat spinal cord (PRA) [Kohno et al.], 338

differences between midazolam and propofol sedation on upper airway collapsibility using dynamic negative airway pressure (CI) [Norton et al.], 1155

Minimum alveolar concentration

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Mitochondrial metabolism

carnitine deficiency, mitochondrial metabolism, and abnormal response to anesthetics (CO) [Weinberg et al.], 1343

Models and modeling

- actions of midazolam on excitatory transmission in dorsal horn neurons of adult rat spinal cord (PRA) [Kohno et al.], 338
- age-dependent responses to nerve injury-induced mechanical allodynia (PRA) [Ririe et al.], 344
- arginine vasopressin, terlipressin, or epinephrine for hypotension in rat model of anaphylaxis (LI) [Dewachter et al.], 734
- blood warming during hemofiltration can improve hemodynamics and outcome in ovine septic shock (LI) [Rogiers et al.], 1216
- cerebral blood flow affects dose requirements of intracarotid propofol for electrocerebral silence (LI) [Joshi et al.], 290
- comparative effects of vaporized perfluorohexane and partial liquid ventilation in oleic acid-induced lung injury (LI) [Gama de Abreu et al.], 278
- comparative somatic and visceral antinociception and neurotoxicity of intrathecal bupivacaine, levobupivacaine, and dextropropofol in rats (PRA) [Muguruma et al.], 1249
- differential spinal cord gene expression in rodent models of radicular and neuropathic pain (PRA) [LaCroix-Fralish et al.], 1283
- effect of the physical properties of isoflurane, sevoflurane, and desflurane on pulmonary resistance in a laboratory lung model (LI) [Nykteri et al.], 1202
- effectiveness of isoflurane in inducing delayed preconditioning against myocardial infarction *in vivo* (CO) [Xia et al.], 383
- effects of caffeine, halothane, and 4-chloro-*m*-cresol on skeletal muscle lactate and pyruvate in malignant hyperthermia-susceptible and normal swine (LI) [Bina et al.], 90
- erythromycin induces tolerance against transient global cerebral ischemia in rats (pharmacologic preconditioning) (LI) [Brambrink et al.], 1208
- excitatory and inhibitory actions of isoflurane on cholinergic ascending arousal system of rat (LI) [Dong et al.], 122
- general anesthetic-induced seizures explained by mean-field model of cortical dynamics (SA) [Wilson et al.], 588
- genetic analysis of opioid-induced hyperalgesia in mice (PRA) [Liang et al.], 1054
- increased expression of COX and nitric oxide isoforms, and exaggerated sensitivity to PGE₂, in rat lumbar spinal cord 3 days after L5-L6 spinal nerve ligation (PRA) [O'Reilly et al.], 328
- increased susceptibility to ventilator-associated lung injury persists after clinical recovery from experimental endotoxemia (LI) [Schreiber et al.], 133
- intravenous anesthetics inhibit capacitative calcium entry into pulmonary venous smooth muscle cells (LI) [Shimizu et al.], 791
- isoflurane increases transendothelial albumin permeability in isolated rat lung (LI) [Hu et al.], 777

isoflurane neuroprotection in rat hippocampal slices decreases with aging (LI) [Zhan et al.], 995

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of mice and men and type II errors (CO) [Hartung], 206

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parturition in the rat: physiologic pain model (PRA) [Catheline et al.], 1257

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sugammadex reversal of rocuronium in anesthetized rhesus monkeys (LI) [de Boer et al.], 718

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Mortality

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Occipitatlantoaxial complex

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 genetic basis of opioid-induced hyperalgesia (EV) [Nackley et al.], 909
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- reconstruction with 2-day continuous femoral nerve block (PRA) [Williams et al.], 315
- upregulation of PGE₂ and interleukins in CNS and peripheral tissue during and after surgery (Symposium) [Buvanendran et al.], 403 (erratum, 900)
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- effects of increasing concentrations of propofol on jugular venous bulb oxygen saturation in neurosurgical patients under normothermic and mildly hypothermic conditions (CI) [Iwata et al.], 2733
- fresh *vs.* aged stored blood to reverse anemia-induced brain oxygenation deficits (CI) [Weiskopf et al.], 911
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- effect of ketamine and lidocaine on spontaneous and evoked pain in patients with nerve injury pain (PRA) [Gottrup et al.], 527
- increased expression of COX and nitric oxide isoforms, and exaggerated sensitivity to PGE₂, in rat lumbar spinal cord 3 days after L5-L6 spinal nerve ligation (PRA) [O'Reilly et al.], 328
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- Pain, postoperative**
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- multicenter dose-escalation study of analgesic and adverse effects of oral cannabis extract (Cannador) for postoperative pain management (PRA) [Holdcroft et al.], 1040
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- preventing and treating pain after thoracic surgery (CCC) [Gottschalk et al.], 594
- reduction of verbal pain scores after anterior cruciate ligament reconstruction with 2-day continuous femoral nerve block (PRA) [Williams et al.], 315
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- mechanism-based pharmacokinetic-pharmacodynamic modeling of the antinociceptive effect of buprenorphine in healthy volunteers (PRA) [Yassen et al.], 1232
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- effects of increasing concentrations of propofol on jugular venous bulb oxygen saturation in neurosurgical patients under normothermic and mildly hypothermic conditions (CI) [Iwata et al.], 2733
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