

SUBJECT INDEX

A

Abdominal surgery, *See under* Surgery

Accidents, *See under* Complications

Acebutolol, *See under* Pharmacology

Acetylcholine

ion channels activated by, edrophonium alters properties of [Wachtel], A339

ion channels activated by, halothane and isoflurane effects on [Sokoll & Davies], A410

peripheral airway responses to [Lindeman, Freed & Hirshman], A545

readily releasable stores of, depletion of [Foldes, Chaudhry, Kinjo & Nagashima], A338

synaptic vesicle uptake of, inhibition of, by vesamicol [Nagashima, Kinjo, Chaudhry & Foldes], A337

Acid-base equilibrium

acidosis

lactic, role in neuronal tissue damage inflicted by hypoxia in vitro [Rigor, Dong, Brahen, West & Schurr], A322

neonatal, at cesarean section, influence of crystalloid solution choice on [Norris, Leighton, DeSimone, Goodman & Gorman], A458

pH

change in, and combined epidural narcotic-local anesthetic synergism [Bagley, Rice & Broadman], A278

effects on oxidation rate of epinephrine [Parnass, Baughman, Miletich & Albrecht], A280

lidocaine solutions adjusted for, effects on compound action potential in intact rat sciatic nerves [Okamura, Reisner & Kalichman], A281

peripheral venous, similarities to arterial blood gases, in anesthetized children [Jordan & Jordan], A528

solutions adjusted for, chemical stability of bupivacaine and epinephrine in [Bonhomme, Benhamou, Martre & Preaux], A279

Acidosis, *See under* Acid-base equilibrium

Acupuncture

role in treatment of postoperative nausea and vomiting [Dundee, Fitzpatrick & Ghaly], A165

Acute respiratory failure, *See* Lung, respiratory distress syndrome

Adenosine, *See under* Pharmacology

Adenosine monophosphate, *See under* Metabolism

Adenosine triphosphate, *See under* Metabolism

ADH, *See* Hormones, antidiuretic

Adrenal medulla, *See under* Sympathetic nervous system

Age factors, *See also* Anesthesia, geriatric; Anesthesia, pediatric; Biotransformation (drug); Potency, anesthetic; Surgery, pediatric

and apneic threshold in lambs [Kurth, Hutchinson, Davenport & Caton], A520

cerebral and myocardial blood flow response to increasing doses of epinephrine during cardiopulmonary resuscitation in infant

swine [Berkowitz, Koehler, Schleien, Dean, Gervais, Michael, Rogers & Traystman], A649

and cerebral blood flow autoregulation during hypothermic cardiopulmonary bypass [Brusino, Reves, Prough, Stump & Croughwell], A10

effects of halothane on function of sarcoplasmic reticulum in skinned myocardial fibers of newborn and adult rabbit [Krane & Su], A93

enflurane and mechanical properties of rat heart muscle during maturation [Shimosato, Mizukawa, Tinker, Ross & Kayaba], A97

and hemodynamic and pharmacokinetic effects of alfentanil in piglet [Davis, Stiller, Cook, Ingram & Roeber], A505

and induction dose of thiopental [Dundee, Milligan & Furness], A662

interaction of fentanyl and pentobarbital on cerebral and peripheral hemodynamics in newborn lambs [Yaster, Koehler & Traystman], A516

and intravascular mixing during induction with thiopental [Henthorn, Krejcie & Avram], A663

and metocurine pharmacokinetics and pharmacodynamics [Weinstein, Matteo, Ornstein, Goldstoft & Diaz], A615

and myocardial depressant effects of isoflurane vs. halothane in feline papillary muscle function [Wolf, Neal & Mathew], A504

neurological outcome in aged rats following regional cerebral ischemia [Hoffman, Baughman, Miletich & Albrecht], A428

and plasma protein binding of sufentanil [Meistelman, Benhamou, Mahe, Levron, Mazoit, Ecoffey & Truffa-Bachi], A518

thiopental kinetics and, reassessment of [Krejcie, Henthorn, Avram & Morton], A664

Air embolism, *See under* Embolism

Airway

closure, in anesthetized children [Jonmarker, Larsson & Werner], A488

resistance

mechanism of action of glucocorticoids on [Darowski, Hannon, Rennie & Hirshman], A546

responses to histamine and acetylcholine [Lindeman, Freed & Hirshman], A545

Airway pressure, *See under* Ventilation

Albumin, *See under* Protein

Alcohol

secondary stereoisomers of, anesthetic and lipid disordering potencies of [Firestone, Alifimoff & Miller], A380

usage of, effect on induction dose of thiopental of [Milligan, Dundee & Furness], A397

Alfentanil, *See under* Analgesics, narcotic; Anesthetics, intravenous

Alinidine, *See under* Pharmacology

Almitrine bismesylate, *See under* Pharmacology

Alpha-adrenergic receptors, *See under* Sympathetic nervous system

Alveolar ventilation, *See under* Ventilation

American Society of Anesthesiologists, *See under* Organizations

Aminoglycosides, *See under* Pharmacology

AMP, *See* Metabolism, adenosine monophosphate

Amrinone, *See under* Pharmacology

Analgesia

bilateral, after unilateral intercostal nerve block [Kuhlman, Ahmad, Cauquil, Roche & Edouard], A284

effects of eutectic mixture of local anesthetics vs. intradermal lidocaine infiltration prior to venous cannulation in children [Soliman, Broadman, Hannallah & McGill], A513

intrapleural administration of lidocaine for treatment of posttraumatic thoracic pain [Carli, Mazoit, Zetlaoui & Lambert], A241

during labor, evaluation of epidural pH-adjusted 2% 2-chloroprocaine for [Ross, Hughes, Glosten, Shnider, Preston, Rosen & Dailey], A629

measurement

qualitative comparison of pain with McGill Pain Questionnaire using meperidine, morphine, and oxymorphone in patient-controlled analgesia [Parker, Sinatra & Harrison], A239

postoperative

in abdominal aortic aneurysms, continuous lumbar epidural fentanyl for [Bell, Levette & Larijani], A234

axillary plexus block-proximal catheter technique for [Gaumann, Lennon & Wedel], A242

caudal, pediatric, minimum effective concentration of bupivacaine for [Wolf, Valley, Fear, Roy & Lerman], A509

caudal, pediatric, morphine [Rosen, Rosen & Bank], A510

after cesarean section, improved, epidural fentanyl/morphine combination for [Kotelko, Rottman, Wright, Stone, Rosenblatt & Yamashiro], A622

after cesarean section, safety and efficacy of epidural butorphanol for, in regular clinical setting [Tan, Bresson, Brockmann & Brauer], A623

continuous epidural sufentanil infusion for [Cheng, Koeber, Hopwood, Stommel, Roerhig & Kay], A233

epidural butorphanol for [Karth, Velamati, Penas, Aravapalli & Lavine], A235

following cesarean delivery, epidural butorphanol/fentanyl for [Naulty, LaBove, Datta, Hunt & Ostheimer], A463

following cesarean delivery, mini-dose intrathecal morphine for [Abboud, Dror, Mosaad, Zhu, Gangolly, Mantilla, Swart, Silao, Makar, Moore, Davis & Lee], A464

microdose intrathecal clonidine and morphine for [Coombs, Jensen & Murphy], A238

patient-controlled, intravenous vs. epidural fentanyl for [Estok, Glass, Goldberg, Freiberg & Sladen], A230

patient-controlled, intravenous vs. subcutaneous hydromorphone for [Urquhart, Klapp & White], A231

patient-controlled, qualitative comparison of pain with McGill Pain Questionnaire using meperidine, morphine, and oxymorphone in [Parker, Sinatra & Harrison], A239

potency of epidural fentanyl and alfentanil [Chrubasik, Wust, Schulte-Monting, Thon & Zindler], A236

prevention of respiratory depression from epidural morphine in post-thoracotomy patients with nalbuphine hydrochloride [Doran, Baxter, Samson, Penning & Dube], A248

relationship between efficacy of pain relief and oscillatory nature of pain using patient-controlled analgesia [Ferrante, Rocco, Orav & Gallo], A232

subarachnoid fentanyl for [Bohannon & Estes], A237

Analgesics, narcotic, *See also* Pain

alfentanil

epidural, postoperative, analgesic potency of [Chrubasik, Wust, Schulte-Monting, Thon & Zindler], A236

perioperative, effect on postoperative gastric emptying of [Howe, Milligan, McClean & Dundee], A164

buprenorphine

and fentanyl, intrathecal, in dog, urodynamic studies after [Drenger, Pikarsky & Magora], A240

butorphanol

epidural, for postoperative analgesia [Karth, Velamati, Penas, Aravapalli & Lavine], A235

epidural, safety and efficacy of, in post-cesarean patients in regular clinical setting [Tan, Bresson, Brockmann & Brauer], A623

fentanyl and, epidural, for post-cesarean delivery analgesia [Naulty, LaBove, Datta, Hunt & Ostheimer], A463

nalbuphine vs., in awake dogs, fourth ventricular administration of, reversal of morphine-induced respiratory depression during [VadeBoncouer, Pelligrino & Albrecht], A542

ventilatory sensitivity to hypoxia after administration of [Camporesi, Glass, Moon, Steinhilber & Wagoner], A541

BW B1090U infusion requirements in adults during anesthesia with [Powers, Weber, Brandom, Byers, Simpson, Sarnier, Woelfel, Cook, McNulty & Foster], A359

fentanyl

bupivacaine and, epidural, epinephrine effect on duration and analgesia with [Grice, Eisenach, Dewan & Weiner], A440

bupivacaine and, subarachnoid, perioperative analgesia with [Hunt, Datta, Hauch, Ostheimer, Herwig & Naulty], A621

and buprenorphine, intrathecal, in dog, urodynamic studies after [Drenger, Pikarsky & Magora], A240

butorphanol and, epidural, for post-cesarean delivery analgesia [Naulty, LaBove, Datta, Hunt & Ostheimer], A463

combined with morphine, epidural, improved surgical and post-cesarean analgesia with [Kotelko, Rottman, Wright, Stone, Rosenblatt & Yamashiro], A622

effects on systemic hemodynamics and plasma concentrations of histamine, catecholamines, and immunoreactive beta endorphin [Fahmy, Bottros, Charchaffieh, Sunder & Carr], A395

epidural, during labor, maternal administration of, neonatal neurobehavioral effects followig [Capogna, Celleno, McGannon, Richardson & Kennedy], A461

epidural, effect of diluent volume on analgesia produced by [Arcario, Vartikar, Johnson, Lema, Datta, Ostheimer & Naulty], A441

epidural, lidocaine with, for cesarean section [Preston, Rosen, Daniels, Glosten, Shnider, Ross, Dailey & Hughes], A442

epidural, postoperative, analgesic potency of [Chrubasik, Wust, Schulte-Monting, Thon & Zindler], A236

epidural bupivacaine and, for extracorporeal shock wave lithotripsy [Bromage, Al-Faqih, Kadiwal & Tamilasan], A226

epidural continuous infusion during labor, 0.0002% with 0.0625% bupivacaine, vs. 0.125% bupivacaine [Chestnut, Owen, Ostman, Bates & Choi], A443

intravenous vs. epidural, in postoperative patient [Estok, Glass, Goldberg, Freiberg & Sladen], A230

local anesthetic synergism with, does pH change contribute to [Bagley, Rice & Broadman], A278

oral, transmucosal, premedication with, effects on gastric volume and acidity in children on [Leiman, Walford, Rawal, Katz, Marcus, van Nieuwenhuyzen, Cronau & Stanley], A489

oral, transmucosal, premedication with, vs. oral solution of meperidine, diazepam, and atropine, in children [Nelson, Streisand, Mulder, East & Stanley], A490

perioperative, effect on postoperative gastric emptying of [Howe, Milligan, McClean & Dundee], A164

subarachnoid, for postoperative analgesia [Bohannon & Estes], A237

hydromorphone

intravenous vs. subcutaneous, for patient controlled anesthesia [Urquhart, Klapp & White], A231

ketamine

in morphine tolerant mice [Finck, Samaniego & Ngai], A396

meperidine

compared with morphine and oxymorphone for use in patient controlled analgesia following cesarean delivery [Harrison, Sinatra, Lodge, Sibert & Parker], A462

intrathecal, tetracaine vs., for elective cesarean section [Talafer, Jacquinet, Legagneux, Jasson & Conseiller], A620

morphine, oxymorphone and, qualitative comparison of pain with McGill Pain Questionnaire using, in patient-controlled analgesia [Parker, Sinatra & Harrison], A239

oral solution with diazepam and atropine, oral transmucosal fentanyl citrate vs., for premedication in children [Nelson, Streisand, Mulder, East & Stanley], A490

methadone

epidural bupivacaine and, for extracorporeal shock wave lithotripsy [Drenger, Shir, Magora & Davidson], A217

pharmacokinetics of, in children and adolescents, in perioperative period [Berde, Sethna, Holzman, Reidy & Gondek], A519

morphine

biphasic effects of, on fetal breathing movements [Szeto, Zhu, Umans & Dwyer], A457

combined with fentanyl, epidural, improved surgical and post-cesarean analgesia with [Kotelko, Rottman, Wright, Stone, Rosenblatt & Yamashiro], A622

compared with meperidine and oxymorphone for use in patient controlled analgesia following cesarean delivery [Harrison, Sinatra, Lodge, Sibert & Parker], A462

distribution following lumbar epidural administration in rabbits [Wang, Hiller, Holland, Simon, Hillman & Turndorf], A253

does clonidine potentiate [Sperry, DiFazio & Moscicki], A391

effect of premedication on preoperative arterial oxygen saturation in children with congenital heart disease [De Bock, Petrilli, Davis & Motoyama], A492

enhanced cardiovascular effects of, during hypothermia [Puig, Bansinath, Vargas, Lovitz & Turndorf], A312

epidural, following cesarean delivery, quality of, as affected by volume of injectant [Phan, Azar, Osborn, Lobo & Lear], A285

epidural, release of β -endorphin and antidiuretic hormone by [Donnenfeld, Ramanathan, Parker, Vargas & Turndorf], A446

epidural, respiratory depression from, in post-thoracotomy patients, prevention with nalbuphine hydrochloride of [Doran, Baxter, Samson, Penning & Dube], A248

epidural, systemic histamine release by [Korsh, Ramanathan, Parker & Turndorf], A445

halothane and, synergistic interaction of, in vitro [Puig, Warner, Tang, Lovitz & Turndorf], A411

injections in cisterna magna for intractable pain in cancer patients [Schoeffler, Haberer, Monteillard & Bouetard], A246

intrathecal, bupivacaine combined with, for cesarean section [Abouleish, Rawal, Fallon & Hernandez], A619

intrathecal, mini-dose, for relief of post-cesarean section pain [Abboud, Dror, Mosad, Zhu, Gangolly, Mantilla, Swart, Silao, Makar, Moore, Davis & Lee], A464

intrathecal, perioperative hemodynamic effects of [Chester, Schubert, Brandon, Pudimat & Pray], A267

isoflurane MAC-awake not affected by analgesic doses of [Gross & Alexander], A375

meperidine, oxymorphone and, qualitative comparison of pain

with McGill Pain Questionnaire using, in patient-controlled analgesia [Parker, Sinatra & Harrison], A239

M-3-glucuronidation of, halothane anesthesia has no effect on [Merrell, Wood, Jackson, Shay & Wood], A295

mice tolerant to, ketamine analgesia in [Finck, Samaniego & Ngai], A396

microdose intrathecal clonidine and and, for postoperative analgesia [Coombs, Jensen & Murphy], A238

pharmacodynamics in rat spinal cord following intrathecal administration [Nishio, Kitabata, Murata, Sinatra & Collins], A394

premedication with, effect on continuous oxygen saturation in cardiac patient prior to transport to operating room [Hensley Jr., Dodson, Larach, Martin & High], A4

respiratory depression induced by, reversal of, during fourth ventricular administration of butorphanol or nalbuphine in awake dogs [VadeBoncouer, Pelligrino & Albrecht], A542

spinal, inhibition of micturition reflex in unanesthetized rats with, drug effects on urinary bladder tone during [Durant & Yaksh], A675

substance P release from cultured dorsal root ganglia inhibited by [Chang, Berde, Holz, Steward & Kream], A388

ventilatory sensitivity to hypoxia after administration of [Camporesi, Glass, Moon, Steinhaus & Wagoner], A541

nalbuphine

butorphanol vs., in awake dogs, fourth ventricular administration of, reversal of morphine-induced respiratory depression during [VadeBoncouer, Pelligrino & Albrecht], A542

intrathecal, failure of, to suppress visceral pain in pregnant rats [Marando, Sinatra, Fu & Collins], A447

prevention of respiratory depression from epidural morphine in post-thoracotomy patients with [Doran, Baxter, Samson, Penning & Dube], A248

nitrous oxide and, neuromuscular effects of BW B1090U in patients under anesthesia with [Choi, Mehta, Murray, Forbes, Sokoll, Gergis, Krol, Abou-Donia & Cotten], A355

nitrous oxide and, neuromuscular effects of BW B1090U in patients under anesthesia with [Lee, Cheng, Yang, Cantley, Harris, Weakly & Whitehead], A354

oxymorphone

compared with meperidine and morphine for use in patient controlled analgesia following cesarean delivery [Harrison, Sinatra, Lodge, Sibert & Parker], A462

effects on systemic hemodynamics and plasma concentrations of histamine, catecholamines, and immunoreactive beta endorphin [Fahmy, Bottros, Charchafieh, Sunder & Carr], A395

meperidine, morphine and, qualitative comparison of pain with McGill Pain Questionnaire using, in patient-controlled analgesia [Parker, Sinatra & Harrison], A239

pentazocine

catecholamine efflux from perfused dog adrenals induced by [Fukumitsu, Sumikawa, Kinouchi & Yoshiya], A387

RX77989

a new potent analgesic [Glass, Shafron, Camporesi, Reves, Gustafson, Spaulding & Quill], A244

spirodoline

epidural, analgesia and ventilatory characteristics of [Lander, Hayworth, Moscicki & DiFazio], A243

sufentanil

continuous epidural infusion for postoperative analgesia [Cheng, Koeber, Hopwood, Stommel, Roerhig & Kay], A233

effect on ventilatory responses to hypercapnia and hypoxia during isoflurane anesthesia in dogs [Abdul-Rasool, Aqleh, Jenkins, Valcke & Ward], A539

- epidural, effect of, on temperature regulation in parturient [Johnson, Sevarino, Lema, Datta, Ostheimer & Naulty], A450
- epidural, in children, analgesia and ventilatory response to CO₂ following [Benlabeled, Ecoffey, Levron, Flaisler & Gross], A517
- local anesthetic synergism with, does pH change contribute to [Bagley, Rice & Broadman], A278
- nasally administered, preinduction of anesthesia in pediatric patients with [Henderson, Brodsky, Fisher, Brett & Hertzka], A495
- substance P release from cultured dorsal root ganglia inhibited by [Chang, Berde, Holz, Steward & Kream], A388
- Anatomy**
- peridural space**
- variations of L₅-S₁ interlaminar space in scoliosis, best approach from convex side [Barrios-Alarcon, Aldrete & Cedrola], A266
- subarachnoid space**
- variations of L₅-S₁ interlaminar space in scoliosis, best approach from convex side [Barrios-Alarcon, Aldrete & Cedrola], A266
- Anesthesia**
- cardiovascular**
- bubble oxygenator, uptake and elimination via [Nussmeier, Moskowitz, Weiskopf, Cohen & Eger II], A197
- effect of congenital heart disease on pharmacokinetics of intravenous lidocaine in pediatrics [LeDez, Strong, Reider, Burrows & Lerman], A71
- etomidate vs. thiopental for elective cardioversion [Ford, Maze & Gaba], A143
- sufentanil or ketamine, induction in cardiomyopathy patients [Gutzke, Shah, Glisson, Griesemer & Rao], A64
- depth**
- lower esophageal contractility and [Hein & Whitaker], A645
- lower esophageal contractility and, clinical signs of light anesthesia and [Aitkenhead, Lin & Thomas], A671
- lower esophageal contractility and, controlled trial of efficacy of measure of [Erickson, Foss & Kuni], A672
- lower esophageal contractility and, during open heart surgery [Silvay, Grossbarth, Erickson, Kuni & Kaplan], A644
- general**
- craniotomy under, hemodynamic response to, effect of bupivacaine scalp infiltration on [Rung, Hillman, Thompson & Davis], A432
- goats under, graded incomplete ischemia in, relationship between cerebral blood flow and somatosensory evoked potentials during [Kochs & Schulte am Esch], A403
- hemodynamic effects of extubation in postoperative critical care patients [Russell, Kofke, High & Snider], A131
- lymph flow rate reduced by [Allen, Drake, Gabel & Laine], A137
- serum creatinine concentration and clearance during whole body hyperthermia ($\geq 41.5^{\circ}\text{C}$) under [Cronau Jr., Mansfield & Bull], A306
- geriatric**
- comparison of sufentanil and fentanyl with N₂O halothane anesthesia for total hip arthroplasty [Gauzit, Marty, Couderc, Bouyet, Flaischler & Desmonts], A120
- dose-response evaluation of pipecuronium bromide in [Azad, Goldberg, Larjani, Ritter, Marr, Beach & Seltzer], A370
- influence of pharmacokinetic alterations of benzodiazepines used for anesthesia on residual sedation in [Servin, Luscombe, Farinotti & Desmonts], A656
- pharmacokinetics and pharmacodynamics of atracurium in [deBros, Okutani, Lai, Lawrence & Basta], A604
- response times to neostigmine and pyridostigmine in [Young, Matteo & Ornstein], A340
- sufentanil pharmacokinetics in [Spielvogel, Caron, Levron & Lienhart], A389
- neurosurgical**
- effect of bupivacaine scalp infiltration on hemodynamic response to craniotomy under general anesthesia [Rung, Hillman, Thompson & Davis], A432
- electrocardiographic changes following [Morales Jr., Shapiro, Donegan, Bird, Huycke, Rupp, Wickersham & Rampil], A65
- obstetric**
- cesarean section**
- combined intrathecal morphine and bupivacaine for [Abouleish, Rawal, Fallon & Hernandez], A619
- comparison of meperidine, morphine, and oxymorphone for use in patient controlled analgesia following [Harrison, Sinatra, Lodge, Sibert & Parker], A462
- elective, intrathecal meperidine vs. tetracaine for [Talafré, Jacquinet, Legagneux, Jasson & Conseiller], A620
- epidural bupivacaine/fentanyl for analgesia following [Naulty, LaBove, Datta, Hunt & Ostheimer], A463
- epidural fentanyl with lidocaine for [Preston, Rosen, Daniels, Glosten, Shnider, Ross, Dailey & Hughes], A442
- epidural ketamine improves epidural lidocaine anesthesia during [Peng, Shulman, Blancato, Cutrone & Nyunt], A624
- evaluation of vecuronium for rapid sequence induction in patients undergoing [Tessmer, Johnson, Skjonsby, Kubicek & Joyce], A452
- improved analgesia for, with epidural fentanyl/morphine combination [Kotelko, Rottman, Wright, Stone, Rosenblatt & Yamashiro], A622
- influence of choice of crystalloid solution on neonatal acid-base status at [Norris, Leighton, DeSimone, Goodman & Gorman], A458
- pain following, mini-dose intrathecal morphine for relief of [Abboud, Dror, Mosaad, Zhu, Gangolly, Mantilla, Swart, Silao, Makar, Moore, Davis & Lee], A464
- perioperative analgesia with subarachnoid fentanyl-bupivacaine for [Hunt, Datta, Hauch, Ostheimer, Herwig & Naulty], A621
- placental transfer and neonatal effects of propofol administered during [Dailland, Lirzin, Cockshott, Jorrot & Coonseiller], A454
- quality of epidural morphine analgesia following, as affected by volume of injectant [Phan, Azar, Osborn, Lobo & Lear], A285
- safety and efficacy of epidural butorphanol for patients following, in regular clinical setting [Tan, Bresson, Brockmann & Brauer], A623
- chronotropic effect of isoproterenol reduction in pregnant women [DeSimone, Leighton, Norris, Chayen & Menduke], A460
- effect of epidural sufentanil on temperature regulation in parturient [Johnson, Sevarino, Lema, Datta, Ostheimer & Naulty], A450
- epidural, in parturient, safety and efficacy of 2% bisulfite-free chloroprocaine with and without epinephrine for [Abboud, Mosaad, Makar, Gangolly, Dror, Zhu, Mantilla, Davis, Moore & Swart], A631
- epidural anesthesia with pH-adjusted 3% 2-chloroprocaine for postpartum tubal ligation [Glosten, Dailey, Preston, Shnider, Ross, Rosen & Hughes], A630

- epidural test dose reconsidered [Baker, Longmire, Jones, Gallen, Palacios, Joyce & Morrow], A625
- evaluation of efficacy of 3% bisulfite-free Nesacaine-CE administered as single dose epidurally for postpartum tubal ligations [Jones, Baker, Tessem, Longmire, Fretwell, Adenwala, Skjonsby, Kubicek & Joyce], A628
- influence of H₂ blockers on duration of vecuronium neuromuscular blockade in postpartum patients vs. nonpregnant controls [Tessem, Adenwala, Camp & Joyce], A451
- labor**
- continuous infusion epidural analgesia during, comparative study of [Chestnut, Owen, Ostman, Bates & Choi], A443
- epidural pH-adjusted 2% chloroprocaine for [Ross, Hughes, Glosten, Shnider, Preston, Rosen & Dailey], A629
- isoproterenol as safe and effective intravenous marker in [Leighton, DeSimone, Norris & Chayen], A626
- low dose epidural sufentanil and bupivacaine for [Little, McNitt, Choi & Tremper], A444
- neonatal neurobehavioral effects following maternal administration of epidural fentanyl during [Capogna, Celleno, McGannon, Richardson & Kennedy], A461
- maternal hemodynamic responses to epinephrine-containing local anesthetics in pre-eclampsia [Dror, Abboud, Moore, Gangolly, Zhu, Mantilla, Swart, Mosaad, Davis & Makar], A632
- neuromuscular transmission studies in preeclamptic women receiving magnesium sulfate [Ramanathan, Sibai, Pillai & Angel], A633
- orthopedic**
- comparison of sufentanil and fentanyl with N₂O halothane anesthesia for total hip arthroplasty in elderly patients [Gauzit, Marty, Couderc, Bouyet, Flaischler & Desmonts], A120
- oxygen desaturation during cemented hip replacement [Rosenberg, Bernstein, Bernstein & Ramanathan], A551
- outpatient**
- antiemetic efficacy of oral metoclopramide vs. intravenous droperidol for laparoscopic procedures [Pandit, Kothary & Pandit], A425
- comparison of BW B1090U with succinylcholine to facilitation endotracheal intubation for [McPeck, Nozik, Walzer, Embree & Schwartz], A352
- diagnostic laparoscopy, fentanyl vs. isoflurane in [Lecky, Kitz, Andrews, Young & Conahan], A433
- premedication with intramuscular midazolam [Shafer, Urquhart, Doze & White], A419
- pediatric**
- airway closure in [Jonmarker, Larsson & Werner], A488
- analgesic effects of eutectic mixture of local anesthetics vs. intradermal lidocaine infiltration prior to venous cannulation in [Soliman, Broadman, Hannallah & McGill], A513
- apneic oxygenation in [Kernisan, Adler, Gibbons & Runions], A521
- baroreceptor reflex control of heart rate during fentanyl anesthesia in newborn infants [Murat, Levron & Saint-Maurice], A523
- carbon dioxide elimination during total cardiopulmonary bypass [Larach, Hensley, High, Williams & Snider], A19
- cardiovascular effects of vecuronium vs. pancuronium in premature infants with hyaline membrane disease [Hamza, Macquin, Wood, Devictor & Huault], A515
- caudal morphine for postoperative pain control in children undergoing cardiac procedures [Rosen, Rosen & Bank], A510
- comparison of two noninvasive estimates of PaCO₂ in critically ill neonates [McEvedy, McLeod, Munini, Kirpalani & Lerman], A485
- dose response of BW A938U in [Goudsouzian, Alifimoff, Liu, Embree, McNulty & Foster], A366
- effect of age on pharmacokinetics of intravenous lidocaine in [LeDez, Strong, Reider, Burrows & Lerman], A500
- effect of congenital heart disease on pharmacokinetics of intravenous lidocaine in [LeDez, Strong, Reider, Burrows & Lerman], A71
- effect of premedication on preoperative arterial saturation in children with congenital heart disease [De Bock, Petrilli, Davis & Motoyama], A492
- effect of preoperative oral droperidol on incidence of postoperative emesis after strabismus surgery [Kaya, Nicolson, Betts, Cochran & Swedlow], A531
- effects of anticholinergic agents on dysrhythmias during halothane anesthesia in [Badgwell, Heavenner, Cooper, Cockings & Lerman], A497
- effects of oral transmucosal fentanyl citrate premedication on gastric volume and acidity in [Leiman, Walford, Rawal, Katz, Marcus, van Nieuwenhuyzen, Cronau & Stanley], A489
- end-tidal carbon dioxide measurements in infants after cardiac surgery [Wessel, Boyd III & Hickey], A175
- end-tidal PCO₂ measurements in, with ventilation with Sechrist infant ventilator [Badgwell, McLeod, Lerman & Creighton], A511
- epidural sufentanil, analgesia and ventilatory response to CO₂ following [Benlabeled, Ecoffey, Levron, Flaisler & Gross], A517
- halothane or enflurane, respiratory effects of nitrous oxide during [Murat, Chaussain & Saint-Maurice], A498
- infant sensitivity to respiratory depression from fentanyl [Hertzka, Fisher, Gauntlett & Spellman], A512
- intranasal ketamine as induction adjunct in [Aldrete, Roman-de Jesus, Russell & D'Cruz], A514
- intraoperative changes in coagulation during liver transplantation in [Kang, Borland, Picone & Martin], A525
- lung function in supine and lateral decubitus positions in [Larsson, Jonmarker, Lindahl & Werner], A499
- measurement of postoperative pain and narcotic administration in infants using new clinical scoring system [Attia, Amiel-Tison, Mayer, Shnider & Barrier], A532
- metabolic rate measured by indirect calorimetry in [Lindahl], A524
- minimum effective concentration of bupivacaine for caudal analgesia after surgery in [Wolf, Valley, Fear, Roy & Lerman], A509
- neuromuscular effects of BW A938U in [Sarner, Brandom, Woelfel, Horn, Cook, Dong, Davis, Foster & McNulty], A365
- nitrous oxide does not affect postoperative vomiting in pediatric eye surgery [Gibbons, Davidson & Adler], A530
- oral atropine premedication in infants [Miller & Friesen], A491
- oxygen administration prevents hypoxemia during postoperative transport in [Patel, Norden & Hannallah], A529
- pharmacokinetics of amrinone in infants [Lawless, Burckart, Thompson & Siewers], A145
- pharmacokinetics of methadone in children and adolescents in perioperative period [Berde, Sethna, Holzman, Reidy & Gondek], A519
- preinduction with nasally administered sufentanil in [Henderson, Brodsky, Fisher, Brett & Hertzka], A495
- premedication in, oral transmucosal fentanyl citrate vs. oral solution of meperidine, diazepam, and atropine for [Nelson, Streisand, Mulder, East & Stanley], A490
- prolonged PT and PTT despite adequate heparin neutralization following cardiopulmonary bypass [Oh, Bell & Hughes], A22

- pulmonary and systemic hemodynamic effects of hyperventilation in infants after repair of congenital heart disease [Wessel, Hickey & Hansen], A526
- pulmonary function abnormalities in patients with persistent pulmonary hypertension of the newborn [Shutack, Fox, Shaffer & Moomjian], A487
- randomized trial of high-dose sufentanil in neonates undergoing cardiac surgery, hormonal and hemodynamic stress responses in [Anand, Carr & Hickey], A501
- randomized trial of high-dose sufentanil in neonates undergoing cardiac surgery, metabolic stress response in [Anand & Hickey], A502
- rectal methohexital in children undergoing computerized cranial tomography and magnetic resonance imaging scans [Griswold & Liu], A494
- rectal methohexitone induction with and without rectal suctioning after sleep, pharmacokinetic and pharmacodynamic study of [Kestin, McIlvaine, Lockhart, Kestin & Jones], A493
- serum bupivacaine during penile block in [Sfez, Le Mapihan, Dreux-Boucard & Mazoit], A260
- similarities between peripheral venous pH and pCO₂ and arterial blood gases in [Jordan & Jordan], A528
- spinal anesthesia with isobaric bupivacaine in infants [Mahe & Ecoffey], A527
- thiopental requirements for induction in newborns and infants 1-6 months of age [Westrin, Jonmarker, Larsson & Werner], A496
- three-breath determination of cardiac output in [Morton], A486
- time course of hemoglobin desaturation during immediate post-anesthetic period in [Motoyama, Borland & Mutich], A508
- use of caffeine in prevention of postanesthetic apnea in premature infants [Welborn, de Soto, Hannallah, Fink & Boeckx], A507
- urologic**
- epidural, for extracorporeal shock wave lithotripsy, neurological complications after [Korbon, Lander, Jenkins, Lippert & Carey], A228
- epidural, repeated, in cat, pathologic consequences of [Korbon, Grosslight, Norley & Herman], A229
- epidural bupivacaine and methadone analgesia for extracorporeal shock wave lithotripsy [Drenger, Shir, Magora & Davidson], A217
- epidural fentanyl for extracorporeal shock wave lithotripsy [Pandit, Powell, Crider, McLaren & Rutter], A225
- evaluation of bupivacaine and fentanyl epidural analgesia for extracorporeal shock wave lithotripsy [Bromage, Al-Faqih, Kadwal & Tamilrasan], A226
- pathologic effects on epidural space of epidural anesthesia and extracorporeal shock wave lithotripsy [Lander, Korbon, Monk, Arnold, Jenkins, Langley & Williamson], A227
- Anesthesia machines, See under Equipment**
- Anesthesia records, See Records, anesthesia**
- Anesthesiologists, See also under Manpower**
- high risk consult service and [Graf, LaMantia, Biondi & Barash], A168
- Anesthetic techniques**
- caudal, *See under Anesthetic techniques, peridural*
- extubation
- hemodynamic effects in postoperative critical care patients [Russell, Kofke, High & Snider], A131
- hypotension, induced
- comparison of effects of three methods for intraoperative blood conservation on systemic hemodynamics and blood replacement [Fahmy & Sunder], A134
- nitroglycerin**
- changes in regional myocardial blood flow and oxygen tension during, in subhuman primates [Fukunaga, Ito, Iijima, Kubota & Miyamoto], A8
- nicardipine vs., for treatment of postoperative hypertension, effects on hemodynamics and left ventricular function of [Benammar, Coriat, Houissa, Bruere, Brusset, Hag & Viars], A139
- nitroprusside**
- amrinone or, milrinone with, during enflurane anesthesia in dog [Makela & Kapur], A601
- cerebral blood flow and cerebral oxygen consumption during [Pinaud, Souron, Gazeau, Chatal & Lajat], A36
- clonidine reduces ADH response and dose requirement during [Ghignone, Quintin, Noe & Calvillo], A38
- comparison of left atrial and systemic venous administration for vasopressor clearance and pharmacodynamics during [Jaffe & Kien], A35
- decomposition of, by blood components [Bates & Baker], A307
- extent of ischemia following middle cerebral artery occlusion during [Cole, Drummond, Shapiro & Zurnow], A571
- hemorrhage complicating, regional cerebral blood flows during [Sperry, Monk, Durieux, Walker & Longnecker], A575
- isoflurane vs., for control of hypertension during thoracic aortic cross-clamping [Godet, Bertrand, Hag, Coriat, Cheour, Kieffer & Viars], A118
- plasma cyanide level measurements and [Van Etten, Triantis, Bloor, Stead & Flacke], A200
- regional cerebral blood flow in rats and [Monk, Sperry, Durieux, Walker & Longnecker], A577
- regional hemodynamic effects of [Monk, Sperry, Durieux, Walker & Longnecker], A34
- tachyphylaxis to, effect of captopril on [Stead, Bloor, Van Etten & Flacke], A37
- in vitro cyanide release from, in different intravenous solutions [Ikeda, Schweiss, Frank & Homan], A308
- randomized controlled trial of esmolol for [Ornstein, Matteo, Weinstein & Schwartz], A423
- hypothermia**
- arterial PO₂ correction for body temperature during [Moon & Camporesi], A20
- cardiopulmonary bypass with, activated coagulation time independently determines adequate anticoagulation during [Haddon, Gravlee, Bean, Miller & Angert], A26
- cardiopulmonary bypass with, cerebrovascular responsiveness to PaO₂ is preserved during [Rogers, Stump, Prough, Angert & Wallenhaupt], A12
- cardiopulmonary bypass with, effect of age on cerebral blood flow autoregulation during [Brusino, Reves, Prough, Stump & Croughwell], A10
- cardiopulmonary bypass with, effects of pump flow reduction on cerebral blood flow during [Prough, Stump, Rogers, Phipps & Hinshelwood], A11
- cardiopulmonary bypass with, influence of perfusion flow rates on cerebral blood flow and oxygen consumption during [Murkin, Farrar, Cleland, MacDonald & Mayer], A9
- enhanced cardiovascular effects of morphine during [Puig, Bansinath, Vargas, Lovitz & Turndorf], A312
- and oxygen delivery in canine asymmetric pulmonary edema treated with PEEP [Johnston, Vinten-Johansen, Strickland & Bowton], A155
- induction**
- abolition of gagging and hemodynamic response to awake laryngoscopy [Woods & Lander], A220

- aerosolized and intravenous lidocaine are no more effective than placebo for the control of hemodynamic responses to intubation [Laurito, Baughman, Polek, Riegler & VadeBoncouer], A29
- awake rigid and fiberoptic laryngoscopy, cardiovascular changes during [Schrader, Ovassapian, Dykes & Avram], A28
- in cardiomyopathy patients, sufentanil or ketamine for [Gutzke, Shah, Glisson, Griesemer & Rao], A64
- comparison of BW B1090U with succinylcholine to facilitate endotracheal intubation in outpatient surgical unit [McPeck, Nozik, Walzer, Embree & Schwartz], A352
- effect of labetalol on hemodynamic response to intubation [Inada, Cullen, Nemeskal & Teplick], a31
- fentanyl-thiopental, sixty-second tracheal intubation with BW B1090U after [Savarese, Ali, Basta, Embree & Risner], A351
- intranasal ketamine as adjunct to, in children [Aldrete, Roman-de Jesus, Russell & D'Cruz], A514
- intravenous labetalol before, ablation of hemodynamic responses to tracheal intubation with [Leslie, Kalayjian, McLoughlin, Russell & Plachetka], A30
- in newborns and infants 1-6 months of age, thiopental requirements for [Westrin, Jonmarker, Larsson & Werner], A496
- with propofol or thiopental followed by vecuronium, intraocular pressure during, influence of additional dose of induction agent on [Elliott, Mirakhur & Shepherd], A484
- rapid sequence, beat-by-beat cardiovascular responses to, effects of labetalol on [Bernstein, Nelson, Ebert, Woods & Roerig], A32
- rapid sequence, using propofol or thiopental with vecuronium, changes in intraocular pressure during [Elliott, Mirakhur & Shepherd], A483
- rapid sequence, vecuronium for, in patients undergoing cesarean section [Tessem, Johnson, Skjonsby, Kubicek & Joyce], A452
- thiopental, influence of age and gender on dose for [Dundee, Milligan & Furness], A662
- insufflation**
- absorption of gas with, during laparoscopy, hazard of [De Sousa & Tyler], A476
- laryngoscopy**
- awake, abolition of gagging and hemodynamic response to [Woods & Lander], A220
- difficult, in diabetes mellitus [Hogan, Rusy & Springman], A473
- difficult, prediction of [Arora, Patterson, Hagen & Pinchak], A472
- rigid and fiberoptic, awake, cardiovascular changes during [Schrader, Ovassapian, Dykes & Avram], A28
- peridural**
- caudal**
- minimum effective concentration of bupivacaine for, after surgery, in pediatrics [Wolf, Valley, Fear, Roy & Lerman], A509
- morphine for postoperative pain control in children undergoing cardiac procedures [Rosen, Rosen & Bank], A510
- epidural**
- baroreflex control during carotid endarterectomy under [Bonnet, Touboul, Szekely & Abhay], A263
- blood pressure response to epinephrine test dose in beta-blocked subjects [Hom, Johnson & Mulroy], A268
- bupivacaine, influence on platelet function and correlation with plasma bupivacaine concentration [Bovill & Odoom], A273
- bupivacaine and fentanyl, epinephrine effect on duration of analgesia with [Grice, Eisenach, Dewan & Weiner], A440
- bupivacaine and fentanyl for extracorporeal shock wave lithotripsy [Bromage, Al-Faqih, Kadiwal & Tamilrasan], A226
- bupivacaine and methadone analgesia for extracorporeal shock wave lithotripsy [Drenger, Shir, Magora & Davidson], A217
- butamben for treatment of metastatic cancer pain [Shulman], A245
- butorphanol, safety and efficacy of, in post-cesarean patients in regular clinical setting [Tan, Bresson, Brockmann & Brauer], A623
- butorphanol for postoperative analgesia [Karth, Velamati, Penas, Aravapalli & Lavine], A235
- butorphanol/fentanyl for post-cesarean delivery analgesia [Naulty, LaBove, Datta, Hunt & Ostheimer], A463
- cervical, bupivacaine, effects on respiratory function of [Chauvin, Lebrault, Gauneau, Goeau & Duvaldestin], A262
- cervical steroid injection, report and description of new approach to [Thoni, Cicala & Angel], A286
- clonidine, effects of, in pregnant ewes [Eisenach, Rose, Dewan & Grice], A448
- clonidine, hemodynamic and spinal cord blood flow effects of, in sheep [Grice & Eisenach], A219
- continuous fentanyl for postoperative pain relief in abdominal aortic aneurysms [Bell, Levette & Larjani], A234
- continuous infusion, during labor, comparative study of [Chestnut, Owen, Ostman, Bates & Choi], A443
- continuous infusion, plasma bupivacaine concentrations during [Flynn, McMurray, Moore, Dwyer & Dundee], A438
- continuous sufentanil infusion for postoperative analgesia [Cheng, Koebert, Hopwood, Stommel, Roerhig & Kay], A233
- dextran 40, treatment of post-spinal headache with [Aldrete, Barrios-Alarcon, Tapia, Penas & Lavine], A221
- effect of sympathetic blockade on tactile sensitivity [Kissin, McDaniel, Brown, Xavier & Bradley Jr.], A269
- evaluation of anesthetized pig vs. mannequin for teaching of [Owen, Choi, Chestnut, Bates & From], A223
- evaluation of 2-chloroprocaine as effective intravenous test dose for [Grice, Eisenach, Dewan & Mandell], A627
- for extracorporeal shock wave lithotripsy, neurological complications after [Korbon, Lander, Jenkins, Lippert & Carey], A228
- fentanyl, during labor, maternal administration of, neonatal neurobehavioral effects following [Capogna, Celleno, McGannon, Richardson & Kennedy], A461
- fentanyl, effect of diluent volume on analgesia produced by [Arcario, Vartikar, Johnson, Lema, Datta, Ostheimer & Naulty], A441
- fentanyl and alfentanil, postoperative, analgesic potency of [Chrubasik, Wust, Schulte-Monting, Thon & Zindler], A236
- fentanyl for extracorporeal shock wave lithotripsy [Pandit, Powell, Crider, McLaren & Rutter], A225
- fentanyl with lidocaine for cesarean section [Preston, Rosen, Daniels, Glosten, Shnider, Ross, Dailey & Hughes], A442
- fentanyl/morphine combination, improved surgical and post-cesarean analgesia with [Kotelko, Rottman, Wright, Stone, Rosenblatt & Yamashiro], A622
- foreign body implantation from epidural catheters [Lachica, Bendon, Ruebusch, Thompson & Santos], A202
- intravenous vs., for postoperative fentanyl [Estok, Glass, Goldberg, Freiburger & Sladen], A230
- isoproterenol as safe and effective intravenous marker in laboring women [Leighton, DeSimone, Norris & Chayen], A626
- lidocaine, improved by epidural ketamine, during cesarean section [Peng, Shulman, Blacato, Cutrone & Nyunt], A624
- lidocaine, influence of hepatic blood flow on pharmacokinetics after [Saada, Bonnet, Piraube, Benoit & Rey], A251

- low dose sufentanil and bupivacaine for labor anesthesia [Little, McNitt, Choi & Tremper], A444
- lumbar, ejection fraction in patients with poor left ventricular function improved by [Coriat, Benammar, Baron, Van Der Linden, Montejo, Bertrand, Daas & Viars], A259
- lumbar, in rabbits, distribution of ³H-morphine following [Wang, Hiller, Holland, Simon, Hillman & Turndorf], A253
- lumbar, segmental wall motion in coronary artery disease patients evaluated by two dimensional echocardiography after [Saada, Duval, Bonnet, Rey & Castillon], A270
- lumbar sympathectomy and, pulse-volume change in lower extremity with [Park & Macnamara], A283
- maternal hemodynamic responses to epinephrine-containing local anesthetics in pre-eclampsia [Dror, Abboud, Moore, Gangolly, Zhu, Mantilla, Swart, Mosaad, Davis & Makar], A632
- morphine, prevention of respiratory depression from, in post-thoracotomy patients, with nalbuphine hydrochloride [Doran, Baxter, Samson, Penning & Dube], A248
- morphine, quality of analgesia with, as affected by volume of injectant, following cesarean delivery [Phan, Azar, Osborn, Lobo & Lear], A285
- morphine, systemic histamine release by [Korsh, Ramanathan, Parker & Turndorf], A445
- narcotic-local anesthetic synergism, does pH change contribute to [Bagley, Rice & Broadman], A278
- in parturient, safety and efficacy of 2% bisulfite-free chloroprocaine with and without epinephrine [Abboud, Mosaad, Makar, Gangolly, Dror, Zhu, Mantilla, Davis, Moore & Swart], A631
- pathologic effects on epidural space of extracorporeal shock wave lithotripsy and [Lander, Korbon, Monk, Arnold, Jenkins, Langley & Williamson], A227
- pH-adjusted 2% 2-chloroprocaine, for labor analgesia [Ross, Hughes, Glosten, Shnider, Preston, Rosen & Dailey], A629
- pH-adjusted 3% 2-chloroprocaine for postpartum tubal ligation [Glosten, Dailey, Preston, Shnider, Ross, Rosen & Hughes], A630
- for postpartum tubal ligations, evaluation of efficacy of 3% bisulfite-free Nesacaine-CE administered as single dose for [Jones, Baker, Tessem, Longmire, Fretwell, Adenwala, Skjonsby, Kubicek & Joyce], A628
- release of β -endorphin and antidiuretic hormone by epidural morphine [Donnenfeld, Ramanathan, Parker, Vargas & Turndorf], A446
- repeated, in cat, pathologic consequences of [Korbon, Grosslight, Norley & Herman], A229
- and rib cage distortion during spontaneous inspiration [Urmev, Lambert, Concepcion, Brown & Leith], A538
- spiradoline, analgesia and ventilatory characteristics of [Lander, Hayworth, Moscicki & DiFazio], A243
- sufentanil, in children, analgesia and ventilatory response to CO₂ following [Benlabeled, Ecoffey, Levron, Flaisler & Gross], A517
- test dose in obstetrics reconsidered [Baker, Longmire, Jones, Gallen, Palacios, Joyce & Morrow], A625
- variations of L₅-S₁ interlaminar space in scoliosis, best approach from convex side [Barrios-Alarcon, Aldrete & Cedrola], A266
- lumbar**
- continuous fentanyl for postoperative pain relief in abdominal aortic aneurysms [Bell, Levette & Larijani], A234
- thoracic**
- and diaphragmatic activity after upper abdominal surgery [Pansard, Philip, Bahnini, Brichant, Delima, Mankikian & Viars], A537
- rectal**
- methohexital in children undergoing computerized cranial tomography and magnetic resonance imaging scans [Griswold & Liu], A494
- pediatric, methohexitone induction with and without rectal suctioning after sleep, pharmacokinetic and pharmacodynamic study of [Kestin, McIlvaine, Lockhart, Kestin & Jones], A493
- regional**
- abolition of gagging and hemodynamic response to awake laryngoscopy [Woods & Lander], A220
- axillary**
- for postoperative pain management [Gauermann, Lennon & Wedel], A242
- brachial plexus**
- axillary, bupivacaine pharmacokinetics during, in renal failure [Chauvin, Mazoit, Andrivon, Goeau & Duvaldestin], A261
- continuous block introducing catheters through Touhy needle in axilla [Plancarte, Amescua, Marron, San Miguel & Aldrete], A287
- bupivacaine scalp infiltration, effect of, on hemodynamic response to craniotomy under general anesthesia [Rung, Hillman, Thompson & Davis], A432
- bupivacaine-induced neural conduction blockade, verapamil potentiates [Parris, Misulis, Kambam, Franks & Dettbarn], A250
- cervical**
- epidural steroid injection, report and description of new approach to [Thoni, Cicala & Angell], A286
- combined interosseous tibial nerve and common peroneal nerve blocks for foot surgery [Shulman, Peng, Nyunt, Kepes & Blancato], A288
- comparison of infusion techniques for sedation during [Urquhart & White], A265
- effect of sympathetic blockade on tactile sensitivity [Kissin, McDanal, Brown, Xavier & Bradley Jr.], A269
- efficacy of methoxyflurane microdroplets in man [Kirkpatrick, Cappozzo & Haynes], A254
- frequency dependent block [Ford], A282
- hemodynamic and oxygen saturation changes among patients receiving [Kitz, Aukburg & Lecky], A264
- intercostal**
- bupivacaine with and without epinephrine for [Johnson, Mickler, Arthur, Rosenberg, Wilson & Covino], A257
- intrapleural, using 0.75% bupivacaine [El-Naggar, Raad, Yogarathnam, Poritz & Bennett], A258
- unilateral, bilateral analgesia after [Kuhlman, Ahmad, Cauquil, Roche & Edouard], A284
- intravenous**
- epidural vs., for postoperative fentanyl [Estok, Glass, Goldberg, Freiburger & Sladen], A230
- morphine injections in cisterna magna for intractable pain in cancer patients [Schoeffler, Haberer, Monteillard & Bouetard], A246
- serum bupivacaine during penile block in children [Sfez, Le Mapihan, Dreux-Boucard & Mazoit], A260
- sympathetic blockade vs. adenosine monophosphate for prevention and treatment of postherpetic neuralgia [Brookshire, Cook & Sklar], A247
- spinal**
- hypobaric, effect of injection rate on level and duration of [Atchison, Wedel, Wilson & Offord], A255

- intrathecal, combined morphine and bupivacaine for cesarean section [Abouleish, Rawal, Fallon & Hernandez], A619
- intrathecal, meperidine vs. tetracaine for elective cesarean section [Talaferre, Jacquinet, Legagneux, Jasson & Conseiller], A620
- intrathecal morphine, mini-dose, for relief of post-cesarean pain [Abboud, Dror, Mosaad, Zhu, Gangolly, Mantilla, Swart, Silao, Makar, Moore, Davis & Lee], A464
- intrathecal morphine, perioperative hemodynamic effects of [Chester, Schubert, Brandon, Pudimat & Pray], A267
- intrathecal morphine, pharmacodynamics of [Nishio, Kitahata, Murata, Sinatra & Collins], A394
- with isobaric bupivacaine, in infants [Mahe & Ecoffey], A527
- microdose intrathecal clonidine and morphine for postoperative analgesia [Coombs, Jensen & Murphy], A238
- morphine-induced inhibition of micturition reflex in unanesthetized rats, drug effects on urinary bladder tone during [Durant & Yaksh], A675
- and rib cage distortion during spontaneous inspiration [Urney, Lambert, Concepcion, Brown & Leith], A538
- subarachnoid clonidine, spinal blood flow effect of [Crosby & Russo], A417
- subarachnoid fentanyl, for postoperative analgesia [Bohannon & Estes], A237
- subarachnoid fentanyl-bupivacaine, perioperative analgesia with [Hunt, Datta, Hauch, Ostheimer, Herwig & Naulty], A621
- urodynamic studies after intrathecal fentanyl and buprenorphine in dog [Drenger, Pikarsky & Magora], A240
- variations of L₅-S₁ interlaminar space in scoliosis, best approach from convex side [Barrios-Alarcon, Aldrete & Cedrola], A266
- topical**
- analgesic effects of eutectic mixture of local anesthetics vs. intradermal lidocaine infiltration prior to venous cannulation in children [Soliman, Broadman, Hannallah & McGill], A513
- Anesthetics, gases**
- nitrous oxide**
- alfentanil with, anesthetic depth for, can EEG be used to monitor [Stanski, Buyk, Ausems, Arts, Kramer & Spierdijk], A401
- cerebral blood flow, oxygen consumption and EEG response to, in rabbit, effects of anesthetics and PaCO₂ on [Kaieda, Todd, Cook & Warner], A409
- concentration of, human bone marrow engraftment delay and [Hogan & Cypcar], A477
- diazepam, fentanyl and, study of spontaneous and purposeful movement as predictor of postoperative recall during [Stolzy, Couture & Edmonds Jr.], A376
- evaluation of personal dosimeters to measure exposure to [Kim, Aldrete & Kullavanijaya], A163
- gradual or abrupt administration of, in canine model of critical coronary stenosis, induces regional myocardial dysfunction that is worsened by halothane [Leone, Philbin, Lehot & Foex], A676
- halothane and, comparison of sufentanil and fentanyl with, for total hip arthroplasty in elderly patients [Gauzit, Marty, Couderc, Bouyet, Flaischler & Desmonts], A120
- during halothane or enflurane anesthesia, in children, respiratory effects of [Murat, Chaussain & Saint-Maurice], A498
- inactivation of methionine synthase by, and decrease in folic acid activity in man [Hawkins, Snider, Russell, Davis & Biebuyck], A292
- ischemic left ventricular dysfunction in pig not worsened by [Cason, Mazer, Demas & Hickey], A46
- isoflurane and, 40 Hz steady state evoked potentials during anesthesia with [Hogan], A402
- isoflurane and, interaction of, on regional cerebral ischemia in rat [Baughman, Hoffman, Albrecht & Miletich], A578
- narcotics and, neuromuscular effects of BW B1090U in patients under anesthesia with [Choi, Mehta, Murray, Forbes, Sokoll, Gergis, Krol, Abou-Donia & Cotten], A355
- narcotics and, neuromuscular effects of BW B1090U in patients under anesthesia with [Lee, Cheng, Yang, Cantley, Harris, Weakly & Whitehead], A354
- neuromuscular blocking effect of nondepolarizing muscle relaxants increased by [Kinjo, Nagashima, Duncalf, Goldiner & Foldes], A372
- oxygen and, isoflurane anesthesia with, healthy surgical patients receiving, pharmacokinetics and pharmacodynamics of BW B1090U in [deBros, Basta, Ali, Wargin & Welch], A609
- postoperative recognition test after [Stolzy, Couture & Edmonds Jr.], A377
- postoperative vomiting in pediatric eye surgery not affected by [Gibbons, Davidson & Adler], A530
- relationship between cerebral blood flow and somatosensory evoked potentials during graded incomplete ischemia in goats under general anesthesia [Kochs & Schulte am Esch], A403
- 70%, effects on canine pulmonary circulation [Hasinoff, Papdimitropoulos & Prewitt], A103
- teratogenic effects of, in rats, prevented by halothane and isoflurane, but not by folic acid [Fujinaga, Baden, Yhap & Mazze], A456
- trace concentrations**
- evaluation of personal dosimeters to measure N₂O exposure when using different gas flows [Kim, Aldrete & Kullavanijaya], A163
- Anesthetics, intravenous**
- alfentanil**
- clinical induction with, do seizures occur during [Smith, Bickford, Sanford Jr., Dec-Silver & Blasco], A385
- direct vs. indirect circulatory effects of [Flacke, Vercellino, Flacke, McIntee & Van Etten], A47
- hemodynamic effects of, in canine septic shock model [Van der Linden, Gilbert, Engelman & Vincent], A413
- high dose, effects on posterior tibial nerve somatosensory evoked potentials [Kalkman, van Rheineck, Leyssius, Hessclink & Bovill], A386
- midazolam and, in man, efficacy of RO 15-1788 vs. physostigmine after [Breimer, Hennis, Spierdijk & Bovill], A660
- midazolam and, total intravenous anesthesia with, reversal of, flumazenil in [Raeder, Hole, Arnulf & Grynne], A659
- muscle rigidity induced by, in rat, localization of brain sites that may play role in [Weinger, Cline, Blasco, Smith & Koob], A384
- with N₂O, anesthetic depth for, can EEG be used to monitor [Stanski, Vuyk, Ausems, Arts, Kramer & Spierdijk], A401
- in piglet, hemodynamic and pharmacokinetic effects of [Davis, Stiller, Cook, Ingram & Roeber], A505
- chloralose**
- enflurane and, effects of verapamil on cardiac electrophysiology in presence of [Hantler, Stockton, Mattson & Knight], A96
- diazepam**
- effects on oxygen demand and energy status in isolated hepatocytes [Becker, Holland, Miletich & Albrecht], A321
- nitrous oxide, fentanyl and, study of spontaneous and purposeful movement as predictor of postoperative recall during [Stolzy, Couture & Edmonds Jr.], A376
- droperidol**
- acute thrombus formation in stenosed dog coronary arteries abolished by [Bertha, Sill, Nugent & Folts], A78

- oral metoclopramide vs., antiemetic efficiency of, for outpatient laparoscopic procedures [Pandit, Kothary & Pandit], A425
- etomidate**
neurologic outcome following regional cerebral ischemia with [Baughman, Hoffman, Miletich & Albrecht], A582
thiopental vs., for elective cardioversion [Ford, Maze & Gaba], A143
- fentanyl**
administered by computer controlled infusion pump, pharmacokinetic analysis of [Shafer, Martinez, Stanski & Scott], A666
anesthesia with, in newborn infants, baroreceptor reflex control of heart rate during [Murat, Levron & Saint-Maurice], A523
clinical induction with, dose-seizures occur during [Smith, Bickford, Sanford Jr., Dec-Silver & Blasco], A385
dose-response for BW A938U [Lynam, Caldwell & Miller], A362
effects on lung metabolism [Watkins & Martin], A296
interactions with etomidate [Kissin, Brown & Bradley Jr.], A383
isoflurane vs., in outpatient diagnostic laparoscopy [Lecky, Kitz, Andrews, Young & Conahan], A433
nitrous oxide, diazepam and, study of spontaneous and purposeful movement as predictor of postoperative recall during [Stolzy, Couture & Edmonds Jr.], A376
onset time of [Cooke & Scott], A393
pentobarbital and, interaction on cerebral and peripheral hemodynamics in newborn lambs of [Yaster, Koehler & Traystman], A516
pharmacokinetics of, during continuous infusion in critically ill patients [Alazia, Levron, Guidon & Francois], A665
plasma atrial natriuretic peptide and angiotensin II concentrations during anesthesia with, in rat [Hoffman, Phillips & Kimura], A320
postoperative recognition test after [Stolzy, Couture & Edmonds Jr.], A377
protection against spinal cord injury with, in rat [Cole, Shapiro, Drummond & Zivin], A585
respiratory depression from, infant sensitivity to [Hertzka, Fisher, Gauntlett & Spellman], A512
subcellular effects relating to actions in intact myocardium [Adams, Pruett, Blair, Crumrine & Balser], A62
sufentanil vs., with N₂O halothane anesthesia for total hip arthroplasty in elderly patients [Gauzit, Marty, Couderc, Bouyet, Fleischler & Desmonts], A120
thiopental and, induction of, sixty-second tracheal intubation with BW 1090U after [Savarese, Ali, Basta, Embree & Risner], A351
thiopental and, relative potency of BW B1 090U during anesthesia with [Weber, Brandom, Powers, Samer, Woelfel, Cook, Foster & Weakly], A356
- flunitrazepam**
pharmacokinetic alterations of, influence on residual sedation in elderly of [Servin, Luscombe, Farinotti & Desmonts], A656
- ketamine**
effects on lung metabolism [Watkins & Martin], A296
effects on somatic and autonomic nerves in peripheral nervous system [Tabatabai, deGroat, Booth & Kirimli], A427
epidural, epidural lidocaine anesthesia improved by, during cesarean section [Peng, Shulman, Blancato, Cutrone & Nyunt], A624
hemodynamic effects of, in canine septic shock model [Van der Linden, Gilbert, Engelman & Vincent], A413
induction in cardiomyopathy patients [Gutzke, Shah, Glisson, Griesemer & Rao], A64
intranasal, as induction adjunct in children [Aldrete, Roman-de Jesus, Russell & D'Cruz], A514
isoflurane vs., comparative inotropic effects in isolated human atrial tissues [Chang, Luk, Lin & Wei], A92
in morphine tolerant mice [Finck, Samaniego & Ngai], A396
used to stop status epilepticus, in rats, neuropathologic effects of [Kofe, Towfighi, O'Connell, Derr & Hawkins], A390
- methohexital**
neurologic outcome following regional cerebral ischemia with [Baughman, Hoffman, Miletich & Albrecht], A582
pediatric rectal induction with and without rectal suctioning after sleep, pharmacokinetic and pharmacodynamic study of [Kestlin, McIlvaine, Lockhart, Kestlin & Jones], A493
rectal, in children undergoing computerized cranial tomography and magnetic resonance imaging scans [Griswold & Liu], A494
- midazolam**
absence of ventilatory agonist or inverse agonist effects of overdose of RO 15-1788 [Forster, Crettenand & Morel], A144
alfentanil and, in man, efficacy of RO 15-1788 vs. physostigmine after [Breimer, Hennis, Spierdijk & Bovill], A660
alfentanil and, total intravenous anesthesia with, reversal of, flumazenil in [Raeder, Hole, Arnulf & Grynne], A659
amnesia induced by, neurocognitive profile of [Galus, Pohorecki, French, Pandit & Domino], A418
anesthetic efficacy of, in enflurane anesthetized dog [Hall, Lasker & Hug Jr.], A657
direct vs. indirect circulatory effects of [Flacke, Vercellino, Flacke, McIntee & Van Etten], A47
neurologic outcome following regional cerebral ischemia with [Baughman, Hoffman, Miletich & Albrecht], A582
pharmacokinetics of, in anesthetized cirrhotic patients [Chauvin, Haberer, Ferrier, Trouvin, Farinotti & Duvaldestin], A290
prolonged elimination of, in patients recovering from cardiac surgery [Maitre, Funk & Crevoisier], A655
used to stop status epilepticus, in rats, neuropathologic effects of [Kofe, Towfighi, O'Connell, Derr & Hawkins], A390
- morphine**
dose-response for BW A938U [Lynam, Caldwell & Miller], A362
interactions with etomidate [Kissin, Brown & Bradley Jr.], A382
intravenous or fourth cerebroventricular infusions of, in awake dog, relationship of cisternal CSF morphine levels to changes in ventilation during [Pelligrino, Peterson, Henderson & Albrecht], A553
- pentobarbital**
disturbance of autonomic nervous system control of pulmonary circulation by, in conscious dogs [Goll, Nyhan, Clougherty, Chen & Murray], A547
effect on pulmonary vascular response to hypoxia in isolated sheep lungs [Martin & Wetzel], A326
effects on cerebral blood flow of, isoflurane influence on [Scheller, Smith, Todd & Drummond], A406
effects on lung metabolism [Watkins & Martin], A296
fentanyl and, interaction on cerebral and peripheral hemodynamics in newborn lambs of [Yaster, Koehler & Traystman], A516
nimodipine and, survival time in hypoxic mice and [Baker, Costas, Gintautas, Doss, Humayun & Abadir], A430
selective inhibition of phosphatidylinositol hydrolysis by, in cultured vascular endothelial cells [Robinson-White, Robinson & Muldoon], A315
- propofol**
administered by prolonged continuous infusion, in man, pharmacokinetics of [Albanese, Auffray, Lacarelle, Martin & Gouin], A667
during cesarean section, placental transfer and neonatal effects of [Dailland, Lirzin, Cockshott, Jorrot & Conseiller], A454

- effects on baroreflex control of heart rate and sympathetic activity in humans [Samain, Marty, Gauzit, Bouyet, Couderc & Desmonts], A75
- induction of anesthesia with, followed by vecuronium, intraocular pressure during, influence of additional dose on [Elliott, Mirakhur & Shepherd], A484
- pharmacokinetics and pharmacodynamics of [Shafer, Shafer, Doze & White], A668
- recovery characteristics following, compared with thiopental-isoflurane [Doze, Shafer & White], A398
- with vecuronium, rapid sequence induction of anesthesia using, changes in intraocular pressure during [Elliott, Mirakhur & Shepherd], A483
- steroid**
- cervical epidural injection of, report and description of new approach to [Thoni, Gicala & Angell], A286
- sufentanil**
- age effects on plasma protein binding of [Meistelman, Benhamou, Mahe, Levron, Mazoit, Ecoffey & Truffa-Bachi], A518
- bupivacaine and, epidural, low dose, for labor anesthesia [Little, McNitt, Choi & Tremper], A444
- clinical induction with, do seizures occur during [Smith, Bickford, Sanford Jr., Dec-Silver & Blasco], A385
- different response of bolus or continuous infusion on brain microcirculation [Lu, Prinscott, Frost, Gibson & Goldiner], A89
- in dogs, cerebral hemodynamic and metabolic effects of [Milde & Milde], A570
- effect of adrenergic stress response on myocardial tolerance of global ischemia during anesthesia with [Hill, Pollard, Simeone, Reves & Lowe], A73
- fentanyl vs., with N₂O halothane anesthesia for total hip arthroplasty in elderly patients [Gauzit, Marty, Couderc, Bouyet, Flaischler & Desmonts], A120
- hemodynamic effects of BW A938U in coronary artery bypass graft and valve replacement patients receiving [Stoops, Curtis, Kovach, McCammon, Stoelting & Warren], A368
- hepatic clearance of, in humans [Schedewie, Lee, Cowan, Gold, Bottorff, Peters, Heerdt & Angell], A291
- high dose, effects on posterior tibial nerve somatosensory evoked potentials [Kalkman, van Rheineck Leyssius, Hesselink & Bovill], A386
- high-dose, in neonates undergoing cardiac surgery, hormonal and hemodynamic stress responses to [Anand, Carr & Hickey], A501
- high-dose, in neonates undergoing cardiac surgery, metabolic stress response to [Anand & Hickey], A502
- induction in cardiomyopathy patients [Gutzke, Shah, Glisson, Griesemer & Rao], A64
- isoflurane vs., effects on experimental myocardial infarction [Davis, Sidi, McCallum, Rush & Ruiz], A99
- negative chronotropic actions in chronically instrumented dogs pretreated with propranolol and/or diltiazem [Schmeling, Kampine, Bernstein & Warltier], A90
- onset time of [Cooke & Scott], A393
- pharmacokinetics of, in elderly [Spielvogel, Caron, Levron & Lienhart], A389
- thiopental**
- age and intravascular mixing during induction with [Henthorn, Krejcie & Avram], A663
- chronically instrumented rat model for combined pharmacokinetic and CNS pharmacodynamic assessment of [Ebling, Burm, Field & Stanski], A674
- effects on oxygen demand and energy status in isolated hepatocytes [Becker, Holland, Miletich & Albrecht], A321
- etomidate vs., for elective cardioversion [Ford, Maze & Gaba], A143
- fentanyl and, induction of, sixty-second tracheal intubation with BW 1090U after [Savarese, Ali, Basta, Embree & Risner], A351
- fentanyl and, relative potency of BW B1090U during anesthesia with [Weber, Brandom, Powers, Sarner, Woelfel, Cook, Foster & Weakly], A356
- induction dose of, effect of alcohol usage on [Milligan, Dundee & Furness], A397
- induction of anesthesia with, followed by vecuronium, intraocular pressure during, influence of additional dose on [Elliott, Mirakhur & Shepherd], A484
- influence of age and gender on induction dose of [Dundee, Milligan & Furness], A662
- isoflurane and, recovery characteristics following, propofol vs. [Doze, Shafer & White], A398
- isoflurane vs., and neurologic outcome following focal ischemia in primates [Milde, Milde, Lanier & Michenfelder], A579
- kinetics and age, reassessment of [Krejcie, Henthorn, Avram & Morton], A664
- long term sterility of diluted or pre-drawn solutions of [Mayweather, Santos, Juneja & Stanek], A160
- postoperative recognition test after [Stolzy, Couture & Edmonds Jr.], A377
- requirements of, for induction of anesthesia in newborns and infants 1-6 months of age [Westrin, Jonmarker, Larsson & Werner], A496
- steady state plasma concentration-EEG effect relationship of [Buhner, Maitre, Ebling & Stanski], A399
- used to stop status epilepticus, in rats, neuropathologic effects of [Kofe, Towfighi, O'Connell, Derr & Hawkins], A390
- with vecuronium, rapid sequence induction of anesthesia using, changes in intraocular pressure during [Elliott, Mirakhur & Shepherd], A483
- Anesthetics, local**
- bupivacaine**
- 0.75%, intrapleural intercostal nerve block using [El-Naggar, Raad, Yogaratnam, Poritz & Bennett], A258
- arrhythmogenicity of, in heart cell culture, progesterone effect on [Baum, Miletich & Curran], A439
- chemical stability of, in pH-adjusted solutions [Bonhomme, Benhamou, Martre & Preaux], A279
- diltiazem and, in conscious dogs [Ahmad, Edouard, Berdeaux, Froidevaux & Samii], A271
- does cardiotoxicity impede only sodium channels [d'Athis, Eledjam, de la Coussaye, Brugada, Desch & Sassine], A275
- epidural anesthesia with, influence on platelet function and correlation with plasma concentration [Bovill & Odoom], A273
- epidural continuous infusion during labor, 0.0625% with 0.0002% fentanyl vs. 0.125% [Chestnut, Owen, Ostman, Bates & Choi], A443
- epidural fentanyl and, for extracorporeal shock wave lithotripsy [Bromage, Al-Faqih, Kadiwal & Tamirasan], A226
- epidural methadone and, for extracorporeal shock wave lithotripsy [Drenger, Shir, Magora & Davidson], A217
- with and without epinephrine, for intercostal nerve blocks [Johnson, Mickler, Arthur, Rosenberg, Wilson & Covino], A257
- fentanyl and, epidural, epinephrine effect on duration and analgesia with [Grice, Eisenach, Dewan & Weiner], A440
- fentanyl and, subarachnoid, perioperative analgesia with [Hunt, Datta, Hauch, Ostheimer, Herwig & Naulty], A621
- high plasma levels raise ventricular fibrillation threshold [Ponhold, Gombotz, Rehak, Eichtinger & Stenzl], A272

- intrathecal, morphine combined with, for cesarean section [Abouleish, Rawal, Fallon & Hernandez], A619
- isobaric, spinal anesthesia with, in infants [Mahe & Ecoffey], A527
- lidocaine vs., maternal and fetal uptake of, at steady state plasma drug concentrations [Morishima, Pedersen, Santos, Finster & Covino], A437
- minimum effective concentration of, for caudal analgesia after surgery in pediatrics [Wolf, Valley, Fear, Roy & Lerman], A509
- narcotic synergism with, does pH change contribute to [Bagley, Rice & Broadman], A278
- neural conduction blockade induced by, verapamil potentiates [Parris, Misulis, Kambam, Franks & Dettbarn], A250
- during penile block in children [Sfez, Le Mapihan, Dreux-Boucard & Mazoit], A260
- pharmacokinetic analysis of, after short and long term infusions, in conscious dogs [Mazoit, Lambert, Froidevaux, Gerard & Berdeaux], A274
- plasma concentrations during continuous epidural infusion [Flynn, McMurray, Moore, Dwyer & Dundee], A438
- scalp infiltration with, effect of, on hemodynamic response to craniotomy under general anesthesia [Rung, Hillman, Thompson & Davis], A432
- serum protein binding and cardiotoxicity of [Santos, Pedersen, Finster, Morishima & Arthur], A249
- sufentanil and, epidural, low dose, for labor anesthesia [Little, McNitt, Choi & Tremper], A444
- butamben**
- epidural, for treatment of metastatic cancer pain [Shulman], A245
- chloroprocaine**
- epidural pH-adjusted 2%, evaluation of, for labor analgesia [Ross, Hughes, Glosten, Shnider, Preston, Rosen & Dailey], A629
- epidural pH-adjusted 3%, for postpartum tubal ligation [Glosten, Dailey, Preston, Shnider, Ross, Rosen & Hughes], A630
- evaluation of, as effective intravenous test dose for epidural anesthesia [Grice, Eisenach, Dewan & Mandell], A627
- evaluation of efficacy of 3% bisulfite-free single dose for postpartum tubal ligations [Jones, Baker, Tessem, Longmire, Fretwell, Adenwala, Skjonsby, Kubicek & Joyce], A628
- is neutralization necessary [Buffington & Powers], A256
- and selective damage of Schwann cells of unmyelinated nerve fibers [Myers, Kalichman & Powell], A276
- with and without epinephrine, 2% bisulfite-free, safety and efficacy for epidural anesthesia in parturient [Abboud, Mosaad, Makar, Gangolly, Dror, Zhu, Mantilla, Davis, Moore & Swart], A631
- epinephrine-containing, maternal hemodynamic responses to, in pre-eclampsia [Dror, Abboud, Moore, Gangolly, Zhu, Mantilla, Swart, Mosaad, Davis & Makar], A632
- etidocaine**
- and selective damage of Schwann cells of unmyelinated nerve fibers [Myers, Kalichman & Powell], A276
- lidocaine**
- aerosolized and intravenous, vs. placebo, for control of hemodynamic responses to intubation [Laurito, Baughman, Polek, Riegler & VadeBoncouer], A29
- bupivacaine vs., maternal and fetal uptake of, at steady state plasma drug concentrations [Morishima, Pedersen, Santos, Finster & Covino], A437
- continuous infusion of, protects in temporary focal cerebral ischemia [Shokunbi, Gelb, Miller & Wu], A580
- diltiazem and, in conscious dogs [Ahmad, Edouard, Berdeaux, Froidevaux & Samii], A271
- effects on oxygen demand and energy status in isolated hepatocytes [Becker, Holland, Miletich & Albrecht], A321
- effects on single sodium channel currents in canine ventricular cells [Berman, Camarero & Siegelbaum], A426
- epidural, anesthesia during cesarean section with, epidural ketamine improvement of [Peng, Shulman, Blancato, Cutrone & Nyunt], A624
- epidural, fentanyl with, for cesarean section [Preston, Rosen, Daniels, Glosten, Shnider, Ross, Dailey & Hughes], A442
- frequency dependent block [Ford], A282
- high plasma levels raise ventricular fibrillation threshold [Ponhold, Gombotz, Rehak, Eichinger & Stenzl], A272
- influence of hepatic blood flow on pharmacokinetics after epidural administration [Saada, Bonnet, Pirabe, Benoit & Rey], A251
- intradermal, vs. eutectic mixture of local anesthetics, prior to venous cannulation in children, analgesic effects of [Soliman, Broadman, Hannallah & McGill], A513
- intrapleural, for treatment of posttraumatic thoracic pain [Carli, Mazoit, Zetlaoui & Lambert], A241
- intravenous, effect of age on pharmacokinetics of, in pediatrics [LeDez, Strong, Reider, Burrows & Lerman], A500
- intravenous, pharmacokinetics of, effect of congenital heart disease on, in pediatrics [LeDez, Strong, Reider, Burrows & Lerman], A71
- pH-adjusted solutions of, effects on compound action potential in intact rat sciatic nerves [Okamura, Reisner & Kalichman], A281
- phosphatidylinositol hydrolysis in vascular endothelial cells altered by [Brown & Robinson-White], A277
- protection against spinal cord injury with, in rat [Cole, Shapiro, Drummond & Zivin], A585
- and selective damage of Schwann cells of unmyelinated nerve fibers [Myers, Kalichman & Powell], A276
- mepivacaine**
- serum protein binding and cardiotoxicity of [Santos, Pedersen, Finster, Morishima & Arthur], A249
- tetracaine**
- intrathecal, meperidine vs., for elective cesarean section [Talafer, Jacquinet, Legagneux, Jasson & Conseiller], A620
- Anesthetics, volatile**
- chloroform**
- genetic variation of responses to, in *C. elegans* [Morgan, Sedsensky, Cascorbi & Meneely], A382
- diethyl ether**
- genetic variation of responses to, in *C. elegans* [Morgan, Sedsensky, Cascorbi & Meneely], A382
- enflurane**
- alteration of compensatory humoral and hemodynamic responses to hemorrhage by [Zimpfer, Mayer, Kotai & Placheta], A53
- anesthesia with, in dog, arrhythmogenic plasma levels of epinephrine during [Hayashi, Sumikawa, Tashiro, Yoshiya & Yamatodani], A57
- anesthesia with, in dog, comparison of miltirone with amrinone or nitroprusside during [Makela & Kapur], A601
- capillary perfusion during [Goetz, Conzen, Schmidt, Hobbhahn, Peter & Brendel], A7
- in children, respiratory effects of nitrous oxide during anesthesia with [Murat, Chaussain & Saint-Maurice], A498
- chloralose and, effects of verapamil on cardiac electrophysiology in presence of [Hantler, Stockton, Mattson & Knight], A96
- comparative effects on Ca^{++} transport and Ca^{++} channel release functions in isolated skeletal muscle SR membranes [Nelson & Swco], A300

- comparative hepatotoxicity of, using isolated perfused rat liver [Mathieu, Ford, Ray & Taylor], A302
- diltiazem and, on specialized intracardiac conduction [Atlee, Brownlee & Kreigh], A60
- dog anesthetized with, anesthetic efficacy of midazolam in [Hall, Lasker & Hug Jr.], A657
- effects of anesthesia and dosage on neuromuscular blockade with BW A938U [Katz, Fragen, Shanks, Dunn, Rudd & Williams], A364
- effects on myocardial relaxation [Housmans & Murat], A51
- effects on spontaneous calcium release from isolated sarcoplasmic reticulum of rabbit white skeletal muscle [Peterson Jr., Baroody & Blanck], A317
- genetic variation of responses to, in *C. elegans* [Morgan, Sedsensky, Cascorbi & Meneely], A382
- in isolated mammalian cardiac muscle, negative inotropic effects of, time course of [Housmans & Murat], A52
- and mechanical properties of rat heart muscle during maturation [Shimosato, Mizukawa, Tinker, Ross & Kayaba], A97
- moderate hypotensive anesthesia with, ischemic heart and [Hobbs, Conzen, Goetz, Seidel, Gonschior, Brendel & Peter], A589
- prejunctional effects of, in man and cat [Stanec & Baker], A336
- verapamil accentuates effects of, more than isoflurane or halothane, on A-V conduction time and incidence of complete A-V block in isolated guinea pig heart [Bosnjak, Marijic, Stowe & Kampine], A61
- verapamil and, on specialized intracardiac conduction [Atlee, Brownlee & Kreigh], A59
- fluroxene**
- genetic variation of responses to, in *C. elegans* [Morgan, Sedsensky, Cascorbi & Meneely], A382
- halothane**
- anesthesia with, in children, effects of anticholinergic agents on dysrhythmias during [Badgwell, Heavner, Cooper, Cockings & Lerman], A497
- cerebral blood flow during carotid endarterectomy and [Young, Prohovnik, Correll, Wang & Lucas], A416
- characterization of oxidation by liver microsomes and purified cytochrome P-450 using gas chromatographic-mass spectrometry assay [Waskell, Konopka, Gruenke & Koop], A314
- in children, respiratory effects of nitrous oxide during anesthesia with [Murat, Chaussain & Saint-Maurice], A498
- comparative effects on Ca^{++} transport and Ca^{++} channel release functions in isolated skeletal muscle SR membranes [Nelson & Sweo], A300
- comparative hepatotoxicity of, using isolated perfused rat liver [Mathieu, Ford, Ray & Taylor], A302
- and decrease in albumin synthesis [Franks, Kruskal, Kirsch, Beachy & Harrison], A294
- depressor responses to noxious stimuli induced by, in rat [Gibbs, Larach, Skeehan & Schuler], A412
- diltiazem and, on specialized intracardiac conduction [Atlee, Brownlee & Kreigh], A60
- direct inhibition of sarcoplasmic reticular function in intact myocardium by [Komai & Rusy], A54
- dose-response for BW A938U [Lynam, Caldwell & Miller], A362
- echocardiographic assessment of myocardial contractility during anesthesia with [Mazzei, Dan, Scheller, Dittrich & Sahn], A590
- effect of concentration on apneic threshold in lambs [Kurth, Hutchinson, Davenport & Caton], A520
- effects of anesthesia and dosage on neuromuscular blockade with BW A938U [Katz, Fragen, Shanks, Dunn, Rudd & Williams], A364
- effects on acetylcholine activated ion channels of [Sokoll & Davies], A410
- effects on cardiac contractility in non-insulin treated spontaneously diabetic rats [Baum, Miletich, Clarke & Pelligrino], A95
- effects on function of sarcoplasmic reticulum in skinned myocardial fibers of newborn and adult rabbit [Krane & Su], A93
- effects on spontaneous calcium release from isolated sarcoplasmic reticulum of rabbit white skeletal muscle [Peterson Jr., Baroody & Blanck], A317
- free intracellular calcium concentration in isolated adult rat heart cells transiently increased by [Wheeler, Rice, Hansford & Lakatta], A94
- genetic variation of responses to, in *C. elegans* [Morgan, Sedsensky, Cascorbi & Meneely], A382
- heart preparations pretreated with, isolated from malignant hyperthermia susceptible pigs, effects of caffeine on transmembrane potential in [Roewer, Rumberger, Dziadzka & Schultze am Esch], A297
- hemodynamic effects of, in canine septic shock model [Van der Linden, Gilbart, Engelman & Vincent], A413
- hemodynamic response to, in rat, influence of renal vasodilating infusions of Fenoldopam on [Ebling, Nunez & Field], A101
- hepatic oxygen supply during anesthesia with, in guinea pigs [Gelman & Hursh], A301
- high frequency response of central mass spectrometer system to [Scamman], A176
- horses anesthetized with, trichlorfon does not alter neuromuscular blocking activity of atracurium in [Hildebrand, Holland & Hill], A350
- isoflurane and, co-administered, anesthetic potency of, in rat [Skeehan, Larach, Hensley Jr., Schuler & Derr], A379
- isoflurane vs., and myocardial depressant effects on immature and mature feline papillary muscle function [Wolf, Neal & Mathew], A504
- isoflurane vs., spontaneous ventilation effects of [Slavchenko, Sandler, Murphy, Vosu & Lau], A535
- lack of effect on M-3-glucuronidation of morphine [Merrell, Wood, Jackson, Shay & Wood], A295
- mechanism of action of α_1 -adrenoceptor agonists in sensitization of heart by [Hayashi, Sumikawa, Tashiro & Yoshiya], A56
- morphine and, synergistic interaction of, in vitro [Puig, Warner, Tang, Lovitz & Turndorf], A411
- myocardial beta-adrenoceptor density decreased by, in dogs, as assessed by positron emission tomography [Maze, Marty, Seto, Crouzel, Valloise, Crouzel, Lancon & Syrota], A55
- N_2O and, comparison of sufentanil and fentanyl with, for total hip arthroplasty in elderly patients [Gauzit, Marty, Couderc, Bouyet, Flaischler & Desmonts], A120
- phospholipase A_2 and, synergistic hemolysis of human red blood cells by, dantrolene antagonism of [Fletcher, Kistler, Rosenberg, Michaux & Tripoliis], A298
- plasma atrial natriuretic peptide and angiotensin II concentrations during anesthesia with, in rat [Hoffman, Phillips & Kimura], A320
- prejunctional effects of, in man and cat [Stanec & Baker], A336
- presence of amrinone does not attenuate anesthetic-induced myocardial depression in vitro following anesthesia with [Neal, Wolf & Mathew], A91
- protection against spinal cord injury with, in rat [Cole, Shapiro, Drummond & Zivin], A585
- recovery from, RO 15-1788 effects on [Geller, Weinbrum, Halpern, Nevo & Rudick], A422
- regional distribution of cerebral blood flow with [Hansen, Warner, Vust & Todd], A574

- respiratory effects of sedative concentration of, in goat [Popic, Will & Jameson], A328
- subanesthetic concentration of, in severe chronic asthma [Morinet, Benhamou, Herve & Denjean], A543
- teratogenic effects of nitrous oxide prevented by, in rats [Fujinaga, Baden, Yhap & Mazze], A456
- toxicity of, in monolayers of rat hepatocytes [Schieble, Costa, Heffel & Trudell], A316
- verapamil accentuates effects of enflurane more than, on A-V conduction time and incidence of complete A-V block in isolated guinea pig heart [Bosnjak, Marijic, Stowe & Kampine], A61
- verapamil and, on specialized intracardiac conduction [Atlee, Brownlee & Kreigh], A59
- and worsening of regional myocardial dysfunction induced by gradual or abrupt nitrous oxide administration in canine model of critical coronary stenosis [Leone, Philbin, Lehot & Foex], A676
- isoflurane**
- anesthesia with, active thermoregulation during [Sessler, Olofsson & Rubinstein], A405
- anesthesia with, in dog, arrhythmogenic plasma levels of epinephrine during [Hayashi, Sumikawa, Tashiro, Yoshiya & Yamatodani], A57
- anesthesia with N₂O/O₂ and, healthy surgical patients receiving, pharmacokinetics and pharmacodynamics of BW B1090U in [deBros, Basta, Ali, Wargin & Welch], A609
- BW B1090U infusion requirements in adults during anesthesia with [Powers, Weber, Brandom, Byers, Simpson, Sarnier, Woelfel, Cook, McNulty & Foster], A359
- capillary perfusion during [Goetz, Conzen, Schmidt, Hobbhahn, Peter & Brendel], A7
- cerebral blood flow during carotid endarterectomy and [Young, Prohovnik, Correll, Wang & Lucas], A416
- changes in regional myocardial blood flow and oxygen tension during induced hypotension with, in subhuman primates [Fukunaga, Ito, Iijima, Kubota & Miyamoto], A8
- comparative effects on Ca⁺⁺ transport and CA⁺⁺ channel release functions in isolated skeletal muscle SR membranes [Nelson & Sweo], A300
- comparative hepatotoxicity of, using isolated perfused rat liver [Mathieu, Ford, Ray & Taylor], A302
- comparison of extent of ischemia following middle cerebral artery occlusion during three induced hypotensive techniques [Cole, Drummond, Shapiro & Zurnow], A571
- conscious and chronically instrumented dogs anesthetized with, hemodynamic effects of UL-FS 49 vs. propranolol in [Wartier, Riley, Gross, Schmeling & Kampine], A48
- diltiazem and, on specialized intracardiac conduction [Atlee, Brownlee & Kreigh], A60
- dipyridamole vs., effects on myocardium supplied by chronically narrowed artery and, in dog [Zimpfer, Mayer & Steinber-eithner], A587
- in dog, hemodynamic and electrocardiographic effects of flecainide with [Pettit & Kapur], A98
- in dog, hypercapnia and hypoxia during anesthesia with, ventilatory responses to, effect of sufentanil infusion on [Abdul-Rasool, Aqleh, Jenkins, Valcke & Ward], A539
- dose-response for BW A938U [Lynam, Caldwell & Miller], A362
- echocardiographic assessment of myocardial contractility during anesthesia with [Mazzei, Dan, Scheller, Dittich & Sahn], A590
- effects of anesthesia and dosage on neuromuscular blockade with BW A938U [Katz, Fragen, Shanks, Dunn, Rudd & Williams], A364
- effects on acetylcholine activated ion channels of [Sokoll & Davies], A410
- effects on cerebral autoregulation [McPherson & Traystman], A576
- effects on cerebral blood flow, intracranial pressure, oxygen consumption and EEG, sevoflurane compared with, in rabbit [Scheller, Tateishi, Drummond & Zornow], A408
- effects on lung metabolism [Watkins & Martin], A296
- effects on spontaneous calcium release from isolated sarcoplasmic reticulum of rabbit white skeletal muscle [Peterson Jr., Baroody & Blanck], A317
- elimination of, from rabbit paralumbar muscle, ¹⁹F NMR spectroscopy study of [Wyrwicz, Conboy & Eisele], A407
- fenentanyl vs., in outpatient diagnostic laparoscopy [Lecky, Kitz, Andrews, Young & Conahan], A433
- genetic variation of responses to, in *C. elegans* [Morgan, Sesdzensky, Cascorbi & Meneely], A382
- halothane and, co-administered, anesthetic potency of, in rat [Skeehan, Larach, Hensley Jr., Schuler & Derr], A379
- halothane vs., and myocardial depressant effects on immature and mature feline papillary muscle function [Wolf, Neal & Mathew], A504
- halothane vs., spontaneous ventilation effects of [Slavchenko, Sandler, Murphy, Vosu & Lau], A535
- hemodynamic effects of, in canine septic shock model [Van der Linden, Gilbert, Engelman & Vincent], A413
- hemodynamic response to, in rat, influence of renal vasodilating infusions of Fenoldopam on [Ebling, Nunez & Field], A101
- hepatic oxygen supply during anesthesia with, in guinea pigs [Gelman & Hursh], A301
- hypotension induced with, regional cerebral blood flow in rats and [Monk, Sperry, Durieux, Walker & Longnecker], A577
- hypotensive action of, resistance to, not due to increase in plasma renin activity [Bernard, Pinaud, Remi & Souron], A381
- induction of myocardial ischemia and [LaMantia, Acampora, Prokop, Ezekowitz, Slavik & Barash], A586
- influence on barbiturate effects on cerebral blood flow [Scheller, Smith, Todd & Drummond], A406
- inhibition of transsarcolemmal calcium influx by [DeTraglia, Komai & Rusy], A50
- ketamine vs., comparative inotropic effects in isolated human atrial tissues [Chang, Luk, Lin & Wei], A92
- MAC for, awake, not affected by analgesic doses of morphine [Gross & Alexander], A375
- MAC for, in dogs, profoundly reduced by azeperexole [Maze, Vickery, Merlone & Gaba], A374
- MAC for, in rat, intrathecal morphine reduces [Drasner, Bernards & Ciriales], A670
- metabolism in obese rats with chronic renal insufficiency [Fish, Rice & Margary], A303
- moderate hypotensive anesthesia with, ischemic heart and [Hobbhahn, Conzen, Goetz, Seidel, Gonschior, Brendel & Peter], A589
- nitrous oxide and, 40 Hz steady state evoked potentials during anesthesia with [Hogan], A402
- nitrous oxide and, interaction of, on regional cerebral ischemia in rat [Baughman, Hoffman, Albrecht & Miletich], A578
- oxygenation of collateral flow dependent myocardium during anesthesia with, coronary perfusion pressure and [Conzen, Hobbhahn, Goetz, Seidel, Gonschior, Peter & Brendel], A588
- potentiation of, induced by acute administration of clonidine, naloxone reversal of [Raybould, Bloor, McIntee & Flacke], A392
- prejunctional effects of, in man and cat [Stanec & Baker], A336

- presence of amrinone attenuates anesthetic-induced myocardial depression in vitro following anesthesia with [Neal, Wolf & Mathew], A91
- and regional cerebral blood flows during deliberate hypotension complicated by hemorrhage [Sperry, Monk, Durieux, Walker & Longnecker], A575
- regional distribution of cerebral blood flow with [Hansen, Warner, Vust & Todd], A574
- regional hemodynamic effects of induced hypotension with [Monk, Sperry, Durieux, Walker & Longnecker], A34
- relative potency of BW B1090 during anesthesia with [Weber, Bandom, Powers, Sarner, Woelfel, Cook, Foster & Weakly], A356
- respiratory effects of sedative concentration of, in goat [Popic, Will & Jameson], A328
- sodium nitroprusside vs., for control of hypertension during thoracic aortic cross-clamping [Godet, Bertrand, Hag, Coriat, Cheour, Kieffer & Viars], A118
- to stop refractory seizures [Kofke, Snider, O'Connell, Young, Ropper, Gray, Johnson, Davis, Woelfel & Gelb], A400
- subanesthetic concentration of, in severe chronic asthma [Morinet, Benhamou, Herve & Denjean], A543
- sufentanil vs., effects on experimental myocardial infarction [Davis, Sidi, McCallum, Rush & Ruiz], A99
- teratogenic effects of nitrous oxide prevented by, in rats [Fujinaga, Baden, Yhap & Mazze], A456
- thiopental and, recovery characteristics following, propofol vs. [Doze, Shafer & White], A398
- thiopental vs., and neurologic outcome following focal ischemia in primates [Milde, Milde, Lanier & Michenfelder], A579
- used to stop status epilepticus, in rats, neuropathologic effects of [Kofe, Towfighi, O'Connell, Derr & Hawkins], A390
- verapamil accentuates effects of enflurane more than, on A-V conduction time and incidence of complete A-V block in isolated guinea pig heart [Bosnjak, Marijic, Stowe & Kampine], A61
- verapamil and, on specialized intracardiac conduction [Atlee, Brownlee & Kreigh], A59
- methoxyflurane**
- genetic variation of responses to, in *C. elegans* [Morgan, Sedsensky, Cascorbi & Meneely], A382
- microdroplets, in man, local anesthetic efficacy of [Kirkpatrick, Cappozzo & Haynes], A254
- phosphoinositide analysis in rats with altered sensitivity to [Haycock & Evers], A378
- sevoflurane**
- anesthesia with, in dog, arrhythmogenic plasma levels of epinephrine during [Hayashi, Sumikawa, Tashiro, Yoshiya & Yamatodani], A57
- effect on P_{50} and PO_2 measurements [Kambam, Holaday, Horton & Parris], A198
- effects on cerebral blood flow, intracranial pressure, oxygen consumption and EEG, isoflurane compared with, in rabbit [Scheller, Tateishi, Drummond & Zornow], A408
- MAC of, in humans and New Zealand white rabbit [Scheller, Partridge & Saidman], A373
- microsomal formation of hexafluoroisopropanol from [Baker, Suter & Bates], A293
- in newborn swine, anesthetic requirements and circulatory responses [Gallagher, Burrows, Miyasaka, Volgyesi & Lerman], A503
- uptake and elimination via bubble oxygenators [Nussmeier, Moskowitz, Weiskopf, Cohen & Eger II], A197
- neurysm, See under Arteries; Surgery**
- ngiocardiography, See under Monitoring**
- Angiotensin, See under Polypeptides**
- Antagonists**
- benzodiazepine**
- physostigmine**
- efficacy of, vs. RO 15-1788, after midazolam-alfentanil anesthesia in man [Breimer, Hennis, Spierdijk & Bovill], A660
- RO 15-1788**
- efficacy of, vs. physostigmine, after midazolam-alfentanil anesthesia in man [Breimer, Hennis, Spierdijk & Bovill], A660
- for intra-operative arousal during spinal fusion [Godat, Ravussin, Bayer-Berger, Chiolerio & Freeman], A421
- overdose of, absence of ventilatory agonist or inverse agonist effects of [Forster, Crettenand & Morel], A144
- recovery from halothane anesthesia and [Geller, Weinbrum, Halpern, Nevo & Rudick], A422
- reversal of total intravenous anesthesia with midazolam and alfentanil with [Raeder, Hole, Arnulf & Grynne], A659
- sedative and ventilatory effects of [Mora, Torjman & DiGiorgio], A534
- stress response following reversal of sedation with [White, Shafer, Boyle & Doze], A661
- in vitro myocardial effects [Boyle III, White, Rendig], A63
- Antagonists, narcotic**
- naloxone**
- and reversal of potentiation of inhalational anesthesia and hemodynamic changes induced by acute administration of clonidine [Raybould, Bloor, McIntee & Flacke], A392
- Antagonists, neuromuscular relaxants**
- edrophonium**
- and alteration of properties of ion channels activated by acetylcholine [Wachtel], A339
- modeling anticholinesterase reversal of relaxants [Shanks], A616
- neostigmine**
- modeling anticholinesterase reversal of relaxants [Shanks], A616
- respiratory failure produced by, alternative mechanism for [Fleming, Macnamara & Dretchen], A617
- response times to, in elderly [Young, Matteo & Ornstein], A340
- pyridostigmine**
- myocardial ischemia after neuromuscular blockade reversal with [Tse, Bause & Barash], A618
- response times to, in elderly [Young, Matteo & Ornstein], A340
- Antiarrhythmics, See under Heart, arrhythmia**
- Anticholinesterases, See Antagonists, neuromuscular relaxants**
- Anticoagulants, See under Blood**
- Anticonvulsants**
- isoflurane as [Kofke, Snider, O'Connell, Young, Ropper, Gray, Johnson, Davis, Woelfel & Gelb], A400
- neuropathologic effects of, in rats [Kofke, Towfighi, O'Connell, Derr & Hawkins], A390
- phenytoin**
- does not interfere with atracurium pharmacokinetics and pharmacodynamics [deBros, Okutani, Lai, Lawrence & Basta], A607
- Antidiuretic hormone, See under Hormones**
- Antiemetics, See under Vomiting**
- Anxiety, See under Psychologic responses**
- Aortic surgery, See under Surgery, cardiovascular**
- Apnea, See under Ventilation**
- Aprotinin, See under Blood, anticoagulants**
- Arrhythmia, See under Complications; Heart**
- Arteries**
- aneurysm**
- rupture of, subarachnoid hemorrhage due to, cerebral vasospasm after, curative treatment with intravenous nimodipine for [Guggiari, Taquai, Philippon & Viars], A584

carotid
 rapid, bedside, and noninvasive assessment of brain death for organ transplant [Lamer, Pilorget, Payen, Beloucif, Moreau & Echter], A148
pulmonary, *See under Lung*
Asthma, *See under Lung*
ATP, *See Metabolism, adenosine triphosphate*
Atracurium, *See under Neuromuscular relaxants*
Atria, *See under Heart*
Atrioventricular block, *See under Heart*
Atropine, *See under Parasympathetic nervous system; Premedication*
Autonomic nervous system, *See Parasympathetic nervous system; Sympathetic nervous system*
Autotransfusion, *See under Transfusion*
A-V block, *See Heart, atrioventricular block*
Axillary block, *See under Anesthetic techniques, regional*
Azathioprine, *See under Pharmacology*

B

Barbiturates, *See under Hypnotics*
Baroreceptors, *See under Receptors, pressoreceptors*
Baroreflex, *See under Reflexes*
Benzodiazepine antagonists, *See under Antagonists*
Benzodiazepines, *See under Anesthetics, intravenous; Hypnotics*
Beta-adrenergic blockade, *See under Sympathetic nervous system*
Beta-adrenergic receptors, *See under Sympathetic nervous system*
Biotransformation (drug)
 age factors
 and cerebrospinal fluid laudanosine kinetics in children [Harris, Stirt, Broadus & Cook], A506
 atracurium and inhibition of plasma cholinesterase and degradation in vitro [Kupferberg, James & Seals], A602
 BW B1090U, in vitro metabolism of [Cook, Stiller, Chakravorti, Welch & Brandom], A610
 decomposition of sodium nitroprusside by blood components [Bates & Baker], A307
 effects of pH on oxidation rate of epinephrine [Parnass, Baughman, Miletich & Albrecht], A280
fluorometabolites
 isoflurane metabolism in obese rats with chronic renal insufficiency [Fish, Rice & Margary], A303
 microsomal formation of hexafluoroisopropanol from sevoflurane [Baker, Suter & Bates], A293
halothane anesthesia has no effect on M-3-glucuronidation of morphine [Merrell, Wood, Jackson, Shay & Wood], A295
microsomes
 and formation of hexafluoroisopropanol from sevoflurane [Baker, Suter & Bates], A293
 liver, and purified cytochrome P-450, characterization of halothane oxidation by, using gas chromatographic-mass spectrometry assay [Waskell, Konopka, Gruenke & Koop], A314
 pharmacokinetics of atracurium and metabolites in normal and renal failure patients [van den Brom, Wierda & Agoston], A606
 quantitation of electrophilic metabolites formed from atracurium in vivo [Pandya, Nigrovic, Gallup & Fry], A603
 in vitro cyanide release from sodium nitroprusside in different intravenous solutions [Ikeda, Schweiss, Frank & Homan], A308
Blood
 anticoagulants
 aprotinin (Trasylol)
 high dose, reduction in postoperative blood loss in patients

 having open heart reoperations using [Royston & Bidstrup], A23
 heparin
 prolonged PT and PTT despite adequate heparin neutralization following cardiopulmonary bypass in children [Oh, Bell & Hughes], A22
coagulation
 adequate anticoagulation during hypothermic cardiopulmonary bypass independently determined by activated coagulation time [Haddon, Gravlee, Bean, Miller & Angert], A26
 changes in, following cardiopulmonary bypass, thrombelastograph and Sonoclot signature monitoring of [Newland, Chapin, Hurlbert, Kennedy & Newland], A199
 intraoperative changes in, during liver transplantation in children [Kang, Borland, Picone & Martin], A525
 after open heart surgery, use of thrombelastograph to predict and assess [Logas, Spiess, Hughes, McCarthy, Jaimovich & Ivanovich], A142
protamine
 adverse effects of, mediation of by thromboxane A₂ and prostaglandin F_{2α} [Hobbbahn, Conzen, Zenker, Goetz, Brendel & Peter], A25
 mechanisms of action of inotropic effects on isolated mammalian cardiac muscles [Housmans & Ferguson], A24
 reduction in postoperative blood loss in patients having open heart reoperations using high dose aprotinin (Trasylol) [Royston & Bidstrup], A23
erythrocytes
 deformability, alteration of, during extracorporeal bypass with membrane oxygenator vs. bubble oxygenator [Hakoshima, Goto, Abe, Benson, Moran & Arakawa], A21
 volume, circulating, measurement of [Hansen, Goetz, Conzen, Hobbbahn & Peter], A207
hemodilution
 comparison of effects of three methods for intraoperative blood conservation on systemic hemodynamics and blood replacement [Fahmy & Sunder], A134
 with isotonic crystalloid and colloid solutions, following cryogenic brain injury, acute cerebral effects of [Zornow, Scheller, Todd & Moore], A583
 normovolemic, in anesthetized patients with coronary artery disease, effects on hemodynamic and LV function of [Van Der Linden, Baron, Philip, Arthaud, Coriat, Bertrand, Vicaut, Debat & Viars], A135
 normovolemic, in patients with coronary artery disease, hemodynamic and metabolic responses to recovery in [Van Der Linden, Baron, Philip, Arthaud, Bertrand, Coriat, Vicaut, Debat & Viars], A79
hemoglobin
 crosslinked, oxygen offloading, plasma retention, and metabolic fate of [Keipert, Verosky & Triner], A653
 desaturation, time course of, during immediate postanesthetic period in children [Motoyama, Borland & Mutich], A508
hemolysis
 synergistic, of human red blood cells, by halothane and phospholipase A₂, dantrolene antagonism of, model for malignant hyperthermia [Fletcher, Kistler, Rosenberg, Michaux & Tripolitis], A298
leukocytes
 polymorphonuclear, function activation of, in patients with adult respiratory distress syndrome [Rossignon, Khayat, Royer, Rouby, Jacquillat & Viars], A647
 role in proteolytic enzyme induced lung injury model [Toung, Sendak, Rosenfeld, Bulkley & Traystman], A646

- loss, *See also* Hemorrhage**
 comparison of effects of three methods for intraoperative blood conservation on systemic hemodynamics and blood replacement [Fahmy & Sunder], A134
 effects of graded hemorrhagic hypotension on cerebral blood flow, blood volume, and mean transit time in dog [Ferrari, Wilson, Hartmann, Rogers & Traystman], A85
 enflurane alters compensatory humoral and hemodynamic responses to [Zimpfer, Mayer, Kotai & Placheta], A53
 hemorrhagic hypovolemia, intracranial hypertension and, esmolol effect on cerebral blood flow during [Bunegin, Albin & Gelineau], A424
 high vs. low inflation pressures of MAST in severe hemorrhagic shock [Riou, Barriot, Bodenau & Viars], A204
 postoperative, reduction in, in patients having open heart reoperations using high dose aprotinin (Trasylol) [Royston & Bidstrup], A23
 severe, adrenal medullary response evoked by, preservation of, by receptor agonists [Gaumann, Yaksh, Tyce & Lucas], A677
- lymph**
 general anesthesia reduces flow rate [Allen, Drake, Gabel & Laine], A137
- methemoglobinemia**
 effects on pulse oximetry and mixed venous oximetry [Barker, Tremper, Hyatt & Zaccari], A171
- oxyhemoglobin dissociation**
 oxygen offloading, plasma retention, and metabolic fate of cross-linked hemoglobin [Keipert, Verosky & Triner], A653
- platelets**
 does amrinone-associated thrombocytopenia occur with short-term administration [Hines & Barash], A599
 influence of epidural anesthesia with bupivacaine on, and correlation with plasma bupivacaine concentration [Bovill & Odoo], A273
 microaggregates, interactions with pulmonary capillary pressure and arachidonic acid derivatives in acute lung injury [Cope, Taylor, Longenecker, Fontenelle & Miller], A652
- replacement, *See also* Transfusion**
 comparison of effects of three methods for intraoperative blood conservation on [Fahmy & Sunder], A134
- stored, *See under* Transfusion**
- volume**
 control of, by atrial natriuretic factor, during cardiac surgery by [Wood, Bullington, Hammon, Imada & Inagami], A18
 effects of graded hemorrhagic hypotension on, in dog [Ferrari, Wilson, Hartmann, Rogers & Traystman], A85
 during hypercapnia and hypercapnic hypoxia in dogs [Hoka, Arimura, Bosnjak & Kampine], A105
- Blood flow, *See under individual organs***
- Blood pressure, *See also under* Measurement techniques; Monitoring**
drug effects
 of BW A938U vs. pancuronium on [Murray, Mehta, Forbes, Choi, Sokoll, Gergis, Krol & Abou-Donia], A367
 of BW B1090U during nitrous oxide-oxygen-narcotic anesthesia [Forbes, Choi, Mehta, Murray, Sokoll, Gergis, Douglas & Abou-Donia], A360
 of morphine, during hypothermia [Puig, Bansinath, Vargas, Lovitz & Turndorf], A312
 heart rate relationship to, as clinical index of baroreceptor function [Koushanpour, Behnia, Sinclair & Chang], A76
- hypertension**
 central venous, pulmonary edema formation following endotoxemia worsened by, in sheep [Allen, Drake, Gabel & Laine], A125
 intraoperative, esmolol for treatment of [Reves, Croughwell, Hawkins & Jacobs], A33
 intraoperative, intravenous nicardipine for treatment of [Begon, Dartayet, Edouard, David & Samii], A39
 intravenous labetalol for reduction of, following myocardial revascularization [Prough, Mills, Kiger & Bowton], A136
 in post-anesthesia recovery room [Shapiro, McCarthy, Litwack, Carroll, Murphy & Ivankovich], A45
 postoperative, nicardipine vs. trinitrin for treatment of, effects on hemodynamics and left ventricular function [Benammar, Coriat, Houissa, Bruere, Brusset, Hag & Viars], A139
 pregnancy induced, model of, in pregnant ewe [Joyce, Longmire, Tessem, Baker & Jones], A455
- pulmonary**
 development of regional myocardial ischemia during, when right coronary artery stenosis is present [Priebe], A6
 persistent, of newborn, pulmonary function abnormalities in patients with [Shutack, Fox, Shaffer & Moonjian], A487
 porcine model of, effects of prostaglandin E₁, isoproterenol, prostacyclin, and nifedipine in [Prielipp, Pearl, McLean & Rosenthal], A154
 in sheep, propylene glycol produces [Pearl & Siegel], A324
 vasoconstrictor model of, in sheep, vasodilator therapy in [Prielipp, Pearl & Rosenthal], A104
 superior vena caval, pleural effusions can be caused by [Allen, Drake, Gabel & Laine], A138
- hypotension**
 hemorrhagic, graded, effects on cerebral blood flow, blood volume, and mean transit time in dog [Ferrari, Wilson, Hartmann, Rogers & Traystman], A85
 isoflurane action, resistance to, not due to increase in plasma renin activity [Bernard, Pinaud, Remi & Souron], A381
 noxious stimuli and, halothane and, in rat [Gibbs, Larach, Skeehan & Schuler], A412
- measurement**
 comparison between radial arterial and central aortic pressure-volume relations [Hillel, Thys, Goldman & Kaplan], A107
 prediction of myocardial ischemia by pressure-rate ratio and diastolic time during coronary artery bypass surgery [Shiraki, Hong, Jo, Strom, Goldiner & Oka], A595
 response to epinephrine test dose in beta-blocked subjects [Hom, Johnson & Mulroy], A268
- Body temperature, *See under* Hyperthermia; Hypothermia; Temperature**
- Brachial plexus block, *See under* Anesthetic techniques, regional**
- Brain**
blood flow
 abnormal responses of, to vasomotor stimuli, intracranial tumors causing [Stump, Bertels & Prough], A415
autoregulation
 effects of isoflurane on [McPherson & Traystman], A576
 during hypothermic cardiopulmonary bypass [Brusino, Reves, Prough, Stump & Croughwell], A10
 barbiturate effects on, isoflurane and [Scheller, Smith, Todd & Drummond], A406
 during cardiopulmonary resuscitation in swine, effect of compression rate and duty cycle on [Koehler, Dean, Schleien, Berkowitz, Michael, Atchison, Rogers & Traystman], A152
 during carotid endarterectomy [Young, Prohovnik, Correll, Wang & Lucas], A416
 cerebral metabolic rate for oxygen not dependent on cerebral oxygen delivery in critically ill patients [Bertels, Prough, Stump & Hinshelwood], A121
 effects of graded hemorrhagic hypotension on, in dog [Ferrari, Wilson, Hartmann, Rogers & Traystman], A85

- effects of isoflurane on [McPherson & Traystman], A576
- effects of pump flow reduction during hypothermic cardiopulmonary bypass [Prough, Stump, Rogers, Phipps & Hinshelwood], A11
- effects of sufentanil on, in dogs [Milde & Milde], A570
- effects of superoxide dismutase following global cerebral ischemia [Snelling, Ackerman, Dean, North & Traystman], A153
- esmolol effect on, during intracranial hypertension and hemorrhagic hypovolemia [Bunegin, Albin & Gelineau], A424
- evidence against central chemoreceptor control with hypoxia [Miyabe, Koehler, Jones Jr., Gurtner & Traystman], A84
- influence of perfusion flow rates during hypothermic cardiopulmonary bypass [Murkin, Farrar, Cleland, MacDonald & Mayer], A9
- middle cerebral artery occlusion, extent of ischemia following, comparison of, during three induced hypotensive techniques [Cole, Drummond, Shapiro & Zornow], A571
- middle cerebral artery occlusion, in cat, hyperglycemia decreases neuronal ischemic changes after [Zasslow, Pearl, Shuer, Lieberman, Steinberg & Larson Jr.], A581
- during nitroprusside-induced hypotension to less than 50 mm Hg [Pinaud, Souron, Gazeau, Chatal & Lajat], A36
- nitrous oxide effects on, in rabbit, effects of anesthetics and PaCO₂ on [Kaieda, Todd, Cook & Warner], A409
- phenylephrine vs. epinephrine and, during and following cardiopulmonary resuscitation in dogs [Schleien, Koehler, Berkowitz, Dean, Gervais, Michael, Rogers & Traystman], A650
- rapid, bedside, and noninvasive assessment of brain death for organ transplant [Lamer, Pilorget, Payen, Beloucif, Moreau & Echter], A148
- reactivity of, to carbon dioxide, preservation of, in clinical sepsis [Bertels, Prough, Stump, Phipps & Chappell], A414
- regional, during deliberate hypotension complicated by hemorrhage [Sperry, Monk, Durieux, Walker & Longnecker], A575
- regional, in rats, induced hypotension and [Monk, Sperry, Durieux, Walker & Longnecker], A577
- regional distribution of, with halothane and isoflurane [Hansen, Warner, Vust & Todd], A574
- response to increasing doses of epinephrine during CPR in infant swine [Berkowitz, Koehler, Schleien, Dean, Gervais, Michael, Rogers & Traystman], A649
- responsiveness to PaO₂ is preserved during hypothermic cardiopulmonary bypass [Rogers, Stump, Prough, Angert & Walenhaupt], A12
- sevoflurane effects are similar to those of isoflurane on, in rabbit [Scheller, Tateishi, Drummond & Zornow], A408
- somatosensory evoked potentials and, relationship between, during graded incomplete ischemia in goats under general anesthesia [Kochs & Schulte am Esch], A403
- electroencephalography**
- chronically instrumented rat model for combined pharmacokinetic and CNS pharmacodynamic assessment of anesthetics [Ebling, Burm, Field & Stanski], A674
- nitrous oxide effects on, in rabbit, effects of anesthetics and PaCO₂ on [Kaieda, Todd, Cook & Warner], A409
- sevoflurane effects are similar to those of isoflurane on, in rabbit [Scheller, Tateishi, Drummond & Zornow], A408
- evoked potentials**
- and time course of lorazepam induced auditory amnesia [Samra, Bradshaw, Pandit, Moore & Papanicolaou], A420
- injury**
- comparison of effects of isoflurane and thiopental on neurologic outcome following focal ischemia in primates [Milde, Milde, Lanier & Michenfelder], A579
- cryogenic, acute cerebral effects of hemodilution with isotonic crystalloid and colloid solutions following [Zornow, Scheller, Todd & Moore], A583
- cryogenic, effect of hypertonic lactated Ringers solution on cerebral edema and intracranial pressure following [Zornow, Scheller, Shackford, Moore & Bloom], A654
- following global cerebral ischemia, effects of superoxide dismutase on [Snelling, Ackerman, Dean, North & Traystman], A153
- hyperglycemia decreases neuronal ischemic changes after middle cerebral artery occlusion in cat [Zasslow, Pearl, Shuer, Lieberman, Steinberg & Larson Jr.], A581
- recovery after clinically relevant cardiac arrest of 20 min with cardiopulmonary bypass vs. cardiopulmonary resuscitation, in dogs [Angelos, Reich, Safar, Stezoski & Houghton], A147
- reduced CSF uridine in patients with [Rosner, Mueller, Ghi, Hunt & Coley], A429
- regional cerebral ischemia with methohexital, midazolam and etomidate, neurologic outcome following [Baughman, Hoffman, Miletich & Albrecht], A582
- temporary focal ischemia, continuous infusion of lidocaine in [Shokunbi, Gelb, Miller & Wu], A580
- intracranial pressure**
- effect of hypertonic lactated Ringers solution on, following cryogenic brain injury [Zornow, Scheller, Shackford, Moore & Bloom], A654
- esmolol effect on cerebral blood flow during intracranial hypertension and hemorrhagic hypovolemia [Bunegin, Albin & Gelineau], A424
- sevoflurane effects are similar to those of isoflurane on, in rabbit [Scheller, Tateishi, Drummond & Zornow], A408
- ischemia**
- extent of, following middle cerebral artery occlusion during three induced hypotensive techniques, comparison of [Cole, Drummond, Shapiro & Zornow], A571
- focal, in primates, comparison of effects of isoflurane and thiopental on neurologic outcome following [Milde, Milde, Lanier & Michenfelder], A579
- focal, temporary, continuous infusion of lidocaine in [Shokunbi, Gelb, Miller & Wu], A580
- global, effects of superoxide dismutase on neurologic injury following [Snelling, Ackerman, Dean, North & Traystman], A153
- graded, incomplete, in goats under general anesthesia, relationship between cerebral blood flow and somatosensory evoked potentials during [Kochs & Schulte am Esch], A403
- hyperglycemia decreases neuronal changes after middle cerebral artery occlusion in cat [Zasslow, Pearl, Shuer, Lieberman, Steinberg & Larson Jr.], A581
- with methohexital, midazolam and etomidate, neurologic outcome following [Baughman, Hoffman, Miletich & Albrecht], A582
- in rat, interaction of nitrous oxide and isoflurane on [Baughman, Hoffman, Albrecht & Miletich], A578
- regional, neurological outcome in aged rats following [Hoffman, Baughman, Miletich & Albrecht], A428
- localization of sites that may play role in alfentanil-induced muscle rigidity in rat [Weinger, Cline, Blasco, Smith & Koob], A384
- metabolism**
- effect of hyperglycemia on [Sieber, Derrer, Saudek & Traystman], A572
- effects of sufentanil on, in dogs [Milde & Milde], A570
- not dependent on cerebral oxygen delivery in critically ill patients [Bertels, Prough, Stump & Hinshelwood], A121

oxygen consumption

- cerebral metabolic rate for oxygen not dependent on cerebral oxygen delivery in critically ill patients [Bertels, Prough, Stump & Hinshelwood], A121
- effect of hypoglycemia on [Sieber, Derrer, Saudek & Traystman], A572
- effects of sufentanil on, in dogs [Milde & Milde], A570
- influence of perfusion flow rates during hypothermic cardiopulmonary bypass [Murkin, Farrar, Cleland, MacDonald & Mayer], A9
- during nitroprusside-induced hypotension to less than 50 mm Hg [Pinaud, Souron, Gazeau, Chatal & Lajat], A36
- nitrous oxide effects on, in rabbit, effects of anesthetics and PaCO₂ on [Kaieda, Todd, Cook & Warner], A409
- sevoflurane effects are similar to those of isoflurane on, in rabbit [Scheller, Tateishi, Drummond & Zornow], A408

oxygenation

- in critically ill patients, cerebral metabolic rate for oxygen not dependent on [Bertels, Prough, Stump & Hinshelwood], A121

Breathing, *See* Ventilation

Bretylium, *See under* Sympathetic nervous system, sympatholytic agents

Bronchial catheters, *See under* Equipment, catheters

Bronchopleural fistula, *See under* Complications, fistula

Bubble oxygenator, *See under* Surgery, cardiovascular, oxygenator

Bupivacaine, *See under* Anesthetics, local

Buprenorphine, *See under* Analgesics, narcotic

Butamben, *See under* Anesthetics, local

Butorphanol, *See under* Analgesics, narcotic

BW A938U, *See under* Neuromuscular relaxants

BW B1090U, *See under* Neuromuscular relaxants

Bypass surgery, *See under* Surgery

C

CABG, *See* Surgery, coronary artery bypass

Calcium, *See under* Ions

Calcium channel blockers, *See under* Ions

Calorimetry, *See under* Measurement techniques

Cancer

- influence of preoperative chest x-rays on perioperative management of patients with [Weibman, Shah & Bedford], A332

- intractable pain in, morphine injections in cisterna magna for [Schoeffler, Haberer, Monteillard & Bouctard], A246

- metastatic, epidural butamben for treatment of pain with [Shulman], A245

- preoperative chest x-rays and [Weibman, Shah & Bedford], A159

Cannulation, *See under* Veins

Capnography, *See under* Equipment

Captopril, *See under* Pharmacology

Carbamazepine, *See under* Pharmacology

Carbon dioxide, *See also under* Monitoring; Ventilation

absorption

- during laparoscopy, hazard of [de Sousa & Tyler], A476
- valveless coaxial anesthesia breathing system with [Nicodemus & Schubert], A211

blood levels

- clinical sepsis and [Bertels, Prough, Stump, Phipps & Chappell], A414

- peripheral venous and arterial, similarities between, in anesthetized children [Jordan & Jordan], A528

elimination

- during total cardiopulmonary bypass in infants and children [Larach, Hensley, High, Williams & Snider], A19

hypercarbia

- attenuation of, by sleep deprivation, in man [Ochiai, Motoyama, Winter & Walczak], A331

- in dogs, regional venous outflow, systemic blood volume and sympathetic nerve activity during [Hoka, Arimura, Bosnjak & Kampine], A105

- effects on liver surface PO₂ in dog [Okazaki, Okutsu, Numata & Fukunaga], A88

- ventilatory responses to, effect of sufentanil infusion on, during isoflurane anesthesia in dogs [Abdul-Rasool, Aqleh, Jenkins, Valcke & Ward], A539

hypocarbica

- effects of hyperventilation in infants after repair of congenital heart disease [Wessel, Hickey & Hansen], A526

- effects on liver surface PO₂ in dog [Okazaki, Okutsu, Numata & Fukunaga], A88

- effects on nitrous oxide responses in rabbit of [Kaieda, Todd, Cook & Warner], A409

measurement

- end-tidal, in infants and children ventilated with Sechrist infant ventilator [Badgwell, McLeod, Lerman & Creighton], A511

ventilatory response

- following epidural sufentanil in children [Benlabeled, Ecoffey, Levron, Flaisler & Gross], A517

Carbon dioxide electrodes, *See under* Measurement techniques, electrodes

Cardiac output, *See under* Heart; Measurement techniques

Cardiopulmonary bypass, *See under* Surgery

Cardiopulmonary resuscitation, *See under* Heart

Cardiovascular anesthesia, *See under* Anesthesia

Cardiovascular surgery, *See under* Surgery

Carotid artery, *See under* Arteries

Carotid endarterectomy, *See under* Surgery

Catecholamines, *See under* Sympathetic nervous system

Catheters, *See under* Equipment

Caudal anesthesia, *See under* Anesthetic techniques, peridural

Central venous pressure, *See* Veins, venous pressure

Cerebral blood flow, *See* Brain, blood flow

Cerebrospinal fluid**composition**

- content and quality of pseudocholinesterase in [Kambam, Horton, Parris, Hyman, Berman & Sastry], A252

- laudanose kinetics in children [Harris, Stirt, Broaddus & Cook], A506

- uridine in, in head injury patients [Rosner, Mueller, Ghia, Hunt & Coley], A429

Cervical anesthesia, *See under* Anesthetic techniques, regional

Cesarean section, *See under* Anesthesia, obstetric

Chemoreceptors, *See under* Receptors

Children, *See* Age factors; Anesthesia, pediatric; Surgery, pediatric

Chloralose, *See under* Anesthetics, intravenous

2-Chloroadenosine, *See* Pharmacology, adenosine

Chloroform, *See under* Anesthetics, volatile

Chloroprocaine, *See under* Anesthetics, local

Cholinesterase, *See under* Enzymes

Cimetidine, *See under* Histamine, antagonists

Circuits, *See under* Equipment

Cirrhosis, *See under* Liver

Clonidine, *See under* Pharmacology

Closed circuits, *See under* Equipment, circuits

Closing capacity, *See under* Lung, capacity

Coagulation, *See under* Blood

Colloid, *See under* Fluid balance

Compliance, *See under* Veins

Complications

accidents

structured mishap analysis using problem-solving model [Gaba, DeAnda & Parsons], A468

arrhythmia

effect of two interventions on rate of [Cooper, Cullen, Nemeskal, Gevirtz & Hoaglin], A466

during pulmonary artery catheterization, patient's position influences incidence of [Keusch, Winters & Thys], A184

survey of 3,244 consecutive admissions to post-anesthesia recovery room at university teaching hospital [Gewolb, Hines & Barash], A471

convulsions

clinical induction with opiates and [Smith, Bickford, Sanford Jr., Dec-Silver & Blasco], A385

detection using processed EEG [Benthuyssen, Fung, Smith & Magliozzi], A214

refractory, isoflurane stops [Kofke, Snider, O'Connell, Young, Ropper, Gray, Johnson, Davis, Woelfel & Gelb], A400

status epilepticus, in rats, anesthetics used to stop, neuropathologic effects of [Kofke, Towfighi, O'Connell, Derr & Hawkins], A390

death

in blunt trauma, adequacy of ASA physical status classification in prediction of [Koch, McLellan, Wortzman, Bertram & Szalai], A482

increased operative stress and [Roizen, Lampe, Benefiel, Sohn, Lichtor, Smith, Stoney, Ehrenfeld, Goldstone, Reilly, Thisted, Eger II & Hamilton], A1

predictors of, in post cardiopulmonary bypass period [Ossey, Hawkins, Reves & McIntyre], A596

risk of surgery and anesthesia 1979 and 1983 [Lichtor, Roizen & Lane], A465

diagnosis, x-ray

chest, preoperative, influence on perioperative management of cancer patients [Weibman, Shah & Bedford], A332

preoperative, for cancer patients [Weibman, Shah & Bedford], A159

edema

cerebral

effect of hypertonic lactated Ringers solution on, following cryogenic brain injury [Zornow, Scheller, Shackford, Moore & Bloom], A654

pulmonary

air embolism induced, effects of regional hypoxia on [Overand, Eisenstein, Bishop & Cheney], A550

asymmetric, canine, treated with PEEP, does hypothermia improve oxygen delivery in [Johnston, Vinten-Johansen, Strickland & Bowton], A155

oleic acid-induced, canine, comparison of two formulas for calculating alveolar oxygen tension in [Johnston, Vinten-Johansen, Bowton, Strickland & Royster], A110

worsened by central venous hypertension following endotoxemia in sheep [Allen, Drake, Gabel & Laine], A125

encephalopathy

after cardiopulmonary bypass [Nussmeier & Fish], A14

fistula

bronchopleural, in acute respiratory failure, comparison of high frequency jet ventilation with conventional ventilation for [Bishop, Benson, Sato & Pierson], A116

foreign body implantation from epidural catheters [Lachica, Bendon, Ruebusch, Thompson & Santos], A202

headache

postspinal, treatment with epidural dextran 40 [Aldrete, Barrios-Alarcon, Tapia, penas & Lavine], A221

hematoma

from right internal jugular vs. left subclavian vein cannulation, in training program [Neal, Wallfisch & Arens], A222

hypertension

effect of two interventions on rate of [Cooper, Cullen, Nemeskal, Gevirtz & Hoaglin], A466

following intracranial aneurysm clipping [Domino & Cullen], A573

postcarotid endarterectomy, prevention with IV nisoldipine, hemodynamic and hyperadrenergic response to recovery [Braz, Coriat, Bertrand, Cheour, Landau, Mouquet & Viers], A140

postcarotid endarterectomy, role of epinephrine, norepinephrine and renin and treatment with labetalol in [Goldberg, Seltzer, Azad, Smullens, Marr & Larijani], A569

postoperative, intravenous nicardipine for [Casar, Pool, Chelly, Barton, Turlapaty & Laddu], A141

survey of 3,244 consecutive admissions to post-anesthesia recovery room at university teaching hospital [Gewolb, Hines & Barash], A471

during thoracic aortic cross-clamping, isoflurane vs. sodium nitroprusside for control of [Godet, Bertrand, Hag, Coriat, Cheour, Kieffer & Viers], A118

hypervolemic hyponatremia syndrome

prevention by continuous monitoring [Watkins-Pitchford & Learned], A216

hypotension

aggressive application of PEEP and [Carroll, Tuman, Braverman, Logas & Ivankovich], A114

effect of two interventions on rate of [Cooper, Cullen, Nemeskal, Gevirtz & Hoaglin], A466

increased intraoperative cardiovascular morbidity in diabetics with autonomic neuropathy [Burgos, Asiddao, Ebert, Pattison & Kampine], A66

survey of 3,244 consecutive admissions to post-anesthesia recovery room at university teaching hospital [Gewolb, Hines & Barash], A471

intubation, endotracheal

pulse oximetry in detection of endobronchial intubation [Barker, Tremper, Hyatt, Zaccari & Thiaure], A170

long term sterility of diluted or pre-drawn solutions of succinylcholine, ephedrine, thiopental, and curare [Mayweather, Santos, Juneja & Stanek], A160

nerve damage

after epidural anesthesia for extracorporeal shock wave lithotripsy [Korbon, Lander, Jenkins, Lippert & Carey], A228

inflicted by hypoxia in vitro, role of lactic acidosis in [Rigor, Dong, Brahen, West & Schurr], A322

local anesthetics selectively damage Schwann cells of unmyelinated nerve fibers [Myers, Kalichman & Powell], A276

neurologic

after clinically relevant cardiac arrest of 20 min with cardiopulmonary bypass vs. cardiopulmonary resuscitation, in dogs [Angelos, Reich, Safar, Stezoski & Houghton], A147

effects of superoxide dismutase following global cerebral ischemia [Snelling, Ackerman, Dean, North & Traystman], A153

after epidural anesthesia for extracorporeal shock wave lithotripsy [Korbon, Lander, Jenkins, Lippert & Carey], A228

obesity

marked hypoxemia after gastropasty due to disorders of breathing in REM sleep [Knill, Moote, Rose & Skinner], A552

morbidity, does atropine inhibit effect of metoclopramide pretreatment on gastric contents in [Goldberg, Norris, Larijani, Marr & Seltzer], A289

pharmacodynamics of vecuronium and atracurium in [Weinstein, Matteo, Ornstein, Goldstoft & Thal], A346

rats with chronic renal insufficiency and, isoflurane metabolism in [Fish, Rice & Margary], A303

pneumonia
diagnosis in mechanically ventilated patients, evaluation of new protected bronchial catheter for [Rossignon, Rouby, Belbachir, Nicolas, Martin de Lassale & Viars], A123
increased operative stress and [Roizen, Lampe, Benefiel, Sohn, Lichtor, Smith, Stoney, Ehrenfeld, Goldstone, Reilly, Thisted, Eger II & Hamilton], A1
risk of, prevention of stress bleeding and, in ventilated ICU patients [Tryba], A124
prognostic value of preoperative noninvasive Doppler measurements of cardiac index [Belani & Estrin], A122

renal
enzyme marker of, pulsatile bypass and [Suntay, Howie, McSweeney, Galbraith & Smith], A15
increased operative stress and [Roizen, Lampe, Benefiel, Sohn, Lichtor, Smith, Stoney, Ehrenfeld, Goldstone, Reilly, Thisted, Eger II & Hamilton], A1
of repeated epidural anesthesia in cat [Korbon, Grosslight, Norley & Herman], A229
resistance to fluid flow can detect venous catheter infiltration [Philip], A194

respiratory depression
effect of two interventions on rate of [Cooper, Cullen, Nemeskal, Gevirtz & Hoaglin], A466
from epidural morphine, prevention of, in post-thoracotomy patients, with nalbuphine hydrochloride [Doran, Baxter, Samson, Penning & Dube], A248
from fentanyl, infant sensitivity to [Hertzka, Fisher, Gauntlett & Spellman], A512
morphine-induced, reversal of, during fourth ventricular administration of butorphanol or nalbuphine, in awake dogs [Vadeboncouer, Pelligrino & Albrecht], A542
in premature infants, use of caffeine in prevention of [Welborn, de Soto, Hannallah, Fink & Boeckx], A507
principal areas of risk and implications for anesthetic care [Caplan, Posner, Ward & Cheney], A469
produced by neostigmine, alternative mechanism for [Fleming, Macnamara & Dretchen], A617
survey of 3,244 consecutive admissions to post-anesthesia recovery room at university teaching hospital [Gewolb, Hines & Barash], A471
study of spontaneous and purposeful movement as predictor of post-operative recall during fentanyl/nitrous oxide/diazepam anesthesia [Stolzy, Couture & Edmonds Jr.], A376

thrombosis
droperidol abolishes acute thrombus formation in stenosed dog coronary arteries [Bertha, Sill, Nugent & Folts], A78

trauma
retrograde tracheal intubation in [Riou, Barriot, Bodenan & Viars], A130

ulcers
prevention in ventilated ICU patients, risk of nosocomial pneumonia and [Tryba], A124

Computerized tomography, See under Measurement techniques, tomography

Computers, See under Equipment; Measurement techniques

Conduction, See under Heart; Nerve

Conduction anesthesia, See Anesthetic techniques, regional

Congenital defects, See under individual organs

Contractility, See under Heart; Muscle, skeletal

Contrast echocardiography, See under Measurement techniques, echocardiography

Convulsions, See under Complications

Cooling, See under Temperature

Coronary artery bypass, See under Surgery

Coronary artery disease, See under Heart

Coronary blood flow, See under Heart

Coronary occlusion, See under Heart

CPR, See Heart, cardiopulmonary resuscitation

Craniotomy, See under Surgery

Critical care, See Intensive care

Crystalloid, See under Fluid balance

Curare, See Neuromuscular relaxants, d-tubocurarine

CVP, See Veins, venous pressure

Cyanosis, See under Oxygen

Cytochrome P-450, See Biotransformation (drug), microsomes

D

Dantrolene, See under Neuromuscular relaxants

Death, See under Complications

Diabetes, See under Metabolism

Diagnosis, x-ray, See under Complications

Diaphragm, See under Muscle, skeletal; Ventilation

Diazepam, See under Anesthetics, intravenous; Hypnotics, benzodiazepines

Diethyl ether, See under Anesthetics, volatile

Diltiazem, See under Ions, calcium channel blockers

Dipyridamole, See under Pharmacology

Distribution, See under Pharmacokinetics

Dobutamine, See under Pharmacology

Dopamine, See under Sympathetic nervous system

Doppler, See under Equipment

Doppler ultrasound, See under Measurement techniques

Dorsal horn ganglia, See under Spinal cord

Dose-response curves, See under Pharmacology

Droperidol, See under Anesthetics, intravenous

Drug biotransformation, See Biotransformation (drug)

Drug interactions, See Interactions (drug)

E

ECG, See under Heart; Measurement techniques; Monitoring

Echocardiography, See under Measurement techniques

Edema, See under Complications

Edrophonium, See under Antagonists, neuromuscular relaxants

Education
medical students
attitudes of, toward anesthesiology, before and after rotation [Gotta, Hartung & Hill], A558
what should be taught about anesthesiology to, results of needs assessment survey on [Polk], A557

residents
anesthesia simulation in actual operating room environment [Gaba & DeAnda], A467
assessment of, written exam vs. attending evaluations for [Schwartz, Sidhu, Maneksha & Poppers], A562
clinical competence and trainee personality traits [Ronai & Funk], A561
comparison of complications from right internal jugular and left subclavian vein cannulation in training program [Neal, Wallfisch & Arens], A222
evaluation of anesthetized pig vs. mannequin for teaching epidural needle and catheter placement [Owen, Choi, Chestnut, Bates & From], A223
internship as predictor of performance of [Rhoton, Barnes, Estafanous & Michener], A560
is anesthesia externship a predictor of future performance of [Silverstein, Martin, Johnston, Blair & Balser], A559

- learning style distribution, consistent relationship of, between faculty and [Baker III, Wallace & Cooke], A564
- personal computer spreadsheet as teaching tool for drug kinetics [Pinchak], A224
- rank order correlations of clinical and academic performance in anesthesia: faculty ratings, daily evaluations, and test scores [Rhoton], A563
- structured mishap analysis using problem-solving model [Gaba, DeAnda & Parsons], A468
- Tulane University School of Medicine Department of Anesthesiology goal-directed case management worksheet as learning tool for [Smith & Texidor], A565
- EEG, See under Measurement techniques; Monitoring**
- Ejection fraction, See under Measurement techniques**
- Elderly, See Age factors; Anesthesia, geriatric**
- Electrocardiography, See under Heart; Measurement techniques; Monitoring**
- Electrodes, See under Measurement techniques**
- Electroencephalogram, See under Measurement techniques**
- Electroencephalography, See under Brain; Monitoring**
- Electrolytes, See Acid-base equilibrium; Fluid balance; Ions**
- Electromyography, See under Measurement techniques**
- Electrophysiology, See under Heart**
- Embolism**
 - air**
 - intraoperative detection with transesophageal color Doppler imaging [Roewer, Bednarz, Dziadzka, Schontag & Schulte am Esch], A180
 - paradoxical, parameters affecting occurrence of [Oliver, Cucchiara, Nishimura & Michenfelder], A435
 - pulmonary edema induced by, effects of regional hypoxia on [Overand, Eisenstein, Bishop & Cheney], A550
 - treatment with special pulmonary artery catheter introducer sheath, in sitting dogs [Bowdle & Artur], A86
 - venous, detection of, by emission spectrometry and mass spectrometry during normobaric and hyperbaric conditions [Russell, Snider, Richard & Loomis], A436
 - venous, detection of, left vs. right parasternal Doppler placement for [Schubert, Drummond & Shapiro], A179
- Emesis, See Vomiting**
- EMG, See Measurement techniques, electromyography**
- Encephalopathy, See under Complications**
- Endarterectomy, carotid, See Surgery, carotid endarterectomy**
- Endobronchial tubes, See under Equipment, tubes**
- Endorphins, See under Polypeptides**
- Endotoxic shock, See under Shock**
- Endotracheal intubation, See Intubation, endotracheal**
- Endotracheal tubes, See under Equipment, tubes**
- Enflurane, See under Anesthetics, volatile**
- Enkephalins, See under Polypeptides**
- Enzymes, See also Metabolism**
 - cholinesterase**
 - plasma, inhibition of, in vitro, atracurium and [Kupferberg, James & Seals], A602
 - methionine synthase**
 - nitrous oxide inactivation of, and decrease in folic acid activity in man [Hawkins, Snider, Russell, Davis & Biebuyck], A292
 - pseudocholinesterase**
 - content and quality in human cerebrospinal fluid [Kambam, Horton, Parris, Hyman, Berman & Sastry], A252
 - xanthine dehydrogenase**
 - conversion to xanthine oxidase during renal ischemia, characterization of [Pearson, Beckman, Freeman & Parks], A305
 - xanthine oxidase**
 - conversion from xanthine dehydrogenase during renal ischemia, characterization of [Pearson, Beckman, Freeman & Parks], A305
- Ephedrine, See under Sympathetic nervous system, sympathomimetic agents**
- Epidural anesthesia, See under Anesthetic techniques, peridural**
- Epinephrine, See under Heart, arrhythmia; Sympathetic nervous system, catecholamines**
- Equipment, See also Measurement techniques; Monitoring**
 - anesthesia machines**
 - expert system for assessment and control of inhalational anesthesia using vital signs [Gingrich & Vishnoi], A195
 - capnography**
 - automated analysis of [Duranteau, Deriaz, Schurandeanu, Rader & Payen], A196
 - catheters**
 - bronchial**
 - protected, diagnosis of nosocomial pneumonia in mechanically ventilated patients with [Rossignon, Rouby, Belbachir, Nicolas, Martin de Lassale & Viars], A123
 - flow-directed**
 - clinical trial of atrioventricular Paceport thermodilution catheter and transluminal atrial bipolar pacing probe [Trankina, White & Pluth], A183
 - comparison of two, in critically ill patients [Reinhart, Moser, Rudolph, Gramm, Goecke & Eyrich], A182
 - patient's position influences incidence of dysrhythmias during pulmonary artery catheterization [Keusch, Winters & Thys], A184
 - sternal retraction and pulmonary artery catheter compromise [Mantia, Lolley, Robinson, Neiman & Stullken Jr.], A185
 - pulmonary artery**
 - compromise, sternal retraction and [Mantia, Lolley, Robinson, Neiman & Stullken Jr.], A185
 - patient's position influences incidence of dysrhythmias with [Keusch, Winters & Thys], A184
 - special introducer sheath, treatment of air embolism with, in sitting dogs [Bowdle & Artur], A86
 - venous**
 - infiltration, detection of, resistance to fluid flow and [Philip], A194
 - prevention of hypervolemic hyponatremia syndrome by continuous monitoring [Watkins-Pitchford & Learned], A216
 - unique hydratable, evaluation of [Cooke & Walker], A208
- circuits**
 - closed**
 - evaluation of personal dosimeters to measure N₂O exposure when using different gas flows [Kim, Aldrete & Kullavani-jaya], A163
 - open vs., patient safety and [Ernst, MacKrell, Pearson, Cutter & Wagenknecht], A474
 - nonbreathing**
 - Bain, conservation of anesthetic gases using [Shah & Bedford], A212
 - evaluation of personal dosimeters to measure N₂O exposure when using different gas flows [Kim, Aldrete & Kullavani-jaya], A163
 - valveless coaxial system with carbon dioxide absorber [Nico-demus & Schubert], A211
 - open**
 - closed vs., patient safety and [Ernst, MacKrell, Pearson, Cutter & Wagenknecht], A474
- computers**
 - in analysis of capnograms [Duranteau, Deriaz, Schurandeanu, Rader & Payen], A196

- anesthesia simulation in actual operating room environment [Gaba & DeAnda], A467
- artifact rejection for inductance plethysmography apnea monitors [East, East, Waterfall, Mathews & Pace], A190
- automatic control of neuromuscular blockade with [Quill, Reves, Jacobs & Glass], A641
- expert system for assessment and control of inhalational anesthesia using vital signs [Gingrich & Vishnoi], A195
- frequency with which ST segment trends predict intraoperative myocardial ischemia [Ellis, Roizen, Aronson, Feinstein & Briller], A2
- infusion pump controlled by, fentanyl administered by, pharmacokinetic analysis of [Shafer, Martinez, Stanski & Scott], A666
- infusion pumps controlled by, performance criteria for [Shafer, Siegel, Cooke & Scott], A192
- performance of voice recognition component of automated record keeping system [Smith, Brien & Banke], A193
- spreadsheet for teaching drug kinetics [Pinchak], A224
- structured mishap analysis using problem-solving model [Gaba, DeAnda & Parsons], A468
- use of simulation to reduce animal studies [Quinn, Smith, Masuzawa, Martin, Mandel & Hatakeyama], A215
- Doppler**
- color, transesophageal, intraoperative detection of venous embolism with [Roewer, Bednarz, Dziadzka, Schontag & Schulte am Esch], A180
- esophageal, continuous, left ventricular contractility determination by [Thys, Hillel & Estioko], A77
- left vs. right parasternal placement of, for detection of venous air embolism [Schubert, Drummond & Shapiro], A179
- laryngoscopes**
- fiberoptic, rigid and, cardiovascular changes with [Schrader, Ovassapian, Dykes & Avram], A28
- needles**
- recapping of, safety of [Hein, Reinhart, Wansbrough, Jantzen & Giesecke Jr.], A161
- size of, effect of, on measurement of potassium level in arterial blood samples [Pinchak, Shepard, Hagen, Hancock & Schulz], A480
- Touhy, in axilla, continuous brachial plexus block introducing catheters through [Plancarte, Amescua, Marron, San Miguel & Aldrete], A287
- nerve stimulators**
- comparison of ulnar nerve tetanic stimulation and clamping of anterior axillary fold to surgical incision for determination of MAC [Schultz, Katz & Pavlin], A669
- nitrogen analyzer**
- raman scattering, first clinical evaluation of [Westenskow, Smith, Coleman, Gregonis & VanWagenen], A642
- pacemakers**
- clinical trial of atrioventricular Paceport thermodilution catheter and transluminal atrial bipolar pacing probe [Trankina, White & Pluth], A183
- effects of previous cardiac surgery on esophageal current thresholds in patients undergoing coronary artery bypass grafting [Buchanan, Clements, Reves, Hochman & Kates], A17
- transcutaneous, noninvasive, in patients undergoing cardiopulmonary bypass [Kelly, Royster & Angert], A16
- pulse oximeter**
- Doppler vs., systolic blood pressure measurement with [Korbon, Wills, D'Lauro & Lawson], A188
- tubes**
- endobronchial**
- margin of safety in positioning of [Benumof, Partirdge, Salvatierra & Keating], A556
- endotracheal**
- double-lumen, margin of safety in positioning of [Benumof, Partirdge, Salvatierra & Keating], A556
- vaporizers**
- for inhalation anesthetics during high frequency jet ventilation [Mazloomdoost, Klain, Nemoto, Lin & Foon], A210
- ventilators**
- functional limitations of [Schapera, Marks, Katz & Kraemer], A133
- high frequency jet ventilation with heliox [Cros, Guenard, Boudet & Erny], A201
- infant, Sechrist, end-tidal PCO₂ measurements in infants and children ventilated with [Badgwell, McLeod, Lerman & Creighton], A511
- pressure transients in, failure of disconnect alarm system [Picard, Hancock & Pinchak], A189
- Erythrocytes, See under Blood**
- Esmolol, See under Sympathetic nervous system, sympatholytic agents**
- Esophagus, See under Gastrointestinal tract**
- Etidocaine, See under Anesthetics, local**
- Etomidate, See under Anesthetics, intravenous; Hypnotics, barbiturates**
- Evoked potentials, See under Brain; Measurement techniques**
- somatosensory, See under Monitoring**
- Extubation, See under Anesthetic techniques**
- Eyes**
- intraocular pressure**
- changes in, during rapid sequence induction of anesthesia using propofol or thiopental with vecuronium [Elliott, Mirakhor & Shepherd], A483
- during induction of anesthesia with propofol or thiopental followed by vecuronium, influence of additional dose of induction agent on [Elliott, Mirakhor & Shepherd], A484
- positive end-expiratory pressure and [Nimmagadda, Joseph, Salem, Villarreal & Lopez], A132
- pupil size as prognostic factor during cardiopulmonary resuscitation in man [Steen-Hansen, Vaagenes & Hansen], A146
- stress response to local anesthesia for cataract surgery [Moss, Donlon Jr. & McGoldrick], A67
- surgery, pediatric, postoperative vomiting in, nitrous oxide does not affect [Gibbons, Davidson & Adler], A530
- surgery, strabismus, pediatric, postoperative emesis after, effect of preoperative oral droperidol on incidence of [Kaya, Nicolson, Betts, Cochran & Swedlow], A531

F

Fatty acids, *See under Metabolism*Fenoldopam, *See under Pharmacology*Fentanyl, *See under Analgesics, narcotic; Anesthetics, intravenous*

Fetus

acid-base status of, at cesarean section, influence of crystalloid solution choice on [Norris, Leighton, DeSimone, Goodman & Gorman], A458

breathing movements of, biphasic effects of morphine on [Szeto, Zhu, Umans & Dwyer], A457

hypoxemia in, intravenous clonidine produces [Eisenach, Rose, Dewan & Grice], A449

neurobehavioral effects following maternal administration of epidural fentanyl during labor [Capogna, Celleno, McGannon, Richardson & Kennedy], A461

uptake of bupivacaine vs. lidocaine at steady state plasma drug concentrations [Morishima, Pedersen, Santos, Finster & Covino], A437

Fiberoptics, *See under* Equipment, laryngoscopes
Fibrillation, ventricular, *See under* Heart, arrhythmia
Fick principle, *See under* Measurement techniques
Fistula, *See under* Complications
Flecainide, *See under* Heart, arrhythmias, antiarrhythmics
Fluid balance, *See also* Acid-base equilibrium
 colloid
 isotonic solutions, hemodilution with, acute cerebral effects of, following cryogenic brain injury [Zornow, Scheller, Todd & Moore], A583
 crystalloid
 choice of solution, influence of, on neonatal acid-base status at cesarean section [Norris, Leighton, DeSimone, Goodman & Gorman], A458
 isotonic solutions, hemodilution with, acute cerebral effects of, following cryogenic brain injury [Zornow, Scheller, Todd & Moore], A583
Flumazenil, *See* Antagonists, benzodiazepine, RO 15-1788
Flunitrazepam, *See under* Anesthetics, intravenous
Fluoride, *See under* Ions
Fluorine-19 nuclear magnetic resonance, *See under* Measurement techniques, nuclear magnetic resonance
Fluorometabolites, *See under* Biotransformation (drug)
Fluroxene, *See under* Anesthetics, volatile
FRC, *See* Lung, capacity, functional residual
Functional residual capacity, *See under* Lung, capacity

G

Gastrointestinal tract, *See also* Vomiting
 esophagus
 lower, contractility of, and clinical signs of light anesthesia [Aitkenhead, Lin & Thomas], A671
 lower, contractility of, depth of anesthesia and [Hein & Whitaker], A645
 lower, contractility of, depth of anesthesia and, controlled trial of efficacy of measure of [Erickson, Foss & Kuni], A672
 lower, contractility of, depth of anesthesia and, during open heart surgery [Silvay, Grossbarth, Erickson, Kuni & Kaplan], A644
 stomach
 effect of perioperative opioids on postoperative gastric emptying [Howe, Milligan, McClean & Dundee], A164
 volume and acidity in, in children, effects of oral transmucosal fentanyl citrate premedication on [Leiman, Walford, Rawal, Katz, Marcus, van Nieuwenhuyzen, Cronau & Stanley], A489
General anesthesia, *See under* Anesthesia
Genetic factors
 variation of anesthetic responses in *C. elegans*, A382
Geriatric anesthesia, *See under* Anesthesia
Glucocorticoids, *See under* Hormones
Glucose, *See under* Metabolism

H

Halothane, *See under* Anesthetics, volatile
Headache, *See under* Complications
Heart
 arrhythmia
 during anesthesia with halothane in children, effects of anticholinergic agents on [Badgwell, Heavner, Cooper, Cockings & Lerman], A497
 antiarrhythmics
 flecainide, hemodynamic and electrocardiographic effects of, during enflurane anesthesia in dog [Pettit & Kapur], A98

bupivacaine and, progesterone effect on [Baum, Miletich & Curran], A439
epinephrine
 arrhythmogenic plasma levels of, during sevoflurane, isoflurane, and enflurane anesthesia, in dog [Hayashi, Sumikawa, Tashiro, Yoshiya & Yamatodani], A57
 effects of chronic hypokalemia on heart potassium and duration of, in rat [Albrecht, Miletich & Less], A70
 increasing doses of, during cardiopulmonary resuscitation in infant swine, cerebral and myocardial blood flow response to [Berkowitz, Koehler, Schleien, Dean, Gervais, Michael, Rogers & Traystman], A649
 test dose of, blood pressure response to, in beta-blocked subjects [Hom, Johnson & Mulroy], A268
 fibrillation, ventricular, threshold of, high bupivacaine and lidocaine plasma levels raise [Ponhold, Gombotz, Rehak, Eichinger & Stenzl], A272
tachycardia
 alinidine effects on, after open heart surgery [Spiss, Rosenits, Haslinger, Redl & Haider], A44
 intraoperative, esmolol for treatment of [Reves, Croughwell, Hawkins & Jacobs], A33
atria
 human, isolated, comparative inotropic effects of ketamine and isoflurane in [Chang, Luk, Lin & Wei], A92
atrioventricular block
 verapamil accentuates effect of enflurane more than isoflurane or halothane on incidence of [Bosnjak, Marijic, Stowe & Kampine], A61
blood flow
 phenylephrine vs. epinephrine and, during and following cardiopulmonary resuscitation in dogs [Schleien, Koehler, Berkowitz, Dean, Gervais, Michael, Rogers & Traystman], A650
 response to increasing doses of epinephrine during CPR in infant swine [Berkowitz, Koehler, Schleien, Dean, Gervais, Michael, Rogers & Traystman], A649
blood flow, myocardial
 blood pressure and heart rate predict ischemia in collateral-dependent myocardium [Buffington, Bashein & Sivarajan], A5
 changes during induced hypotension with nitroglycerine, isoflurane and ATP in subhuman primates [Fukunaga, Ito, Iijima, Kubota & Miyamoto], A8
 contrast echocardiography for intraoperative quantitation of [Segil, Dick, Feinstein & Silverman], A100
 development of regional myocardial ischemia during acute pulmonary hypertension when right coronary artery stenosis is present [Priebe], A6
 effects of dobutamine on systolic and diastolic coronary bypass graft flow in humans [Beloucif, Payen, Laborde, Bousseau & Echter], A40
 free and limited, effects of inositol hexaphosphate induced high P50 on isolated rabbit heart with [Baron, Vicaut, Stucker, Villereal, Ropars, Teisseire, Viars & Duvelleroy], A102
 moderate hypotensive anesthesia with enflurane and isoflurane and [Hobbbahn, Conzen, Goetz, Seidel, Gonschior, Brendel & Peter], A589
 oxygenation of collateral flow dependent myocardium during isoflurane anesthesia, coronary perfusion pressure and [Conzen, Hobbbahn, Goetz, Seidel, Gonschior, Peter & Brendel], A588
cardiac output
 acute administration of clonidine and, naloxone reversal of changes caused by [Raybould, Bloor, McIntee & Flacke], A392
 comparison of effects of central vs. peripheral bolus injections of

- potassium chloride on aortic root potassium concentrations in swine [Scheller, Mazzei, Zornow & Mitchell], A108
- effects of α_1 -adrenergic bolus administration in anesthetized patients [Schwinn, Clements, Hawkins, Kates & Reves], A72
- effects of BW A938U on, in coronary artery bypass graft and valve replacement patients receiving oxygen sufentanil anesthesia [Stoops, Curtis, Kovach, McCammon, Stoelting & Warren], A368
- effects of BW A938U on [Konstadt, Thys, Reich, Keusch & Kaplan], A369
- effects of pipecuronium bromide in CABG patients [Wierda, Karliczek, van den Brom, Kersten-Kleef & Agoston], A613
- low, postoperative, peripheral effects of dobutamine in [Cork, Gallo Jr., Levinson, Smith & Copeland], A41
- low, postoperative, peripheral effects of isoproterenol in [Cork, Gallo Jr., Levinson, Smith & Copeland], A43
- prognostic value of preoperative noninvasive Doppler measurements of [Belani & Estrin], A122
- response to inhalation anesthetics, in rat, influence of renal vasodilating infusions of Fenoldopam on [Ebling, Nunez & Field], A101
- sevoflurane in newborn swine and [Gallagher, Burrows, Miyasaka, Volgyesi & Lerman], A503
- during total knee replacement surgery with total condylar prosthesis [Tartiere, Gerard, Samii & Quesnel], A106
- transhiatal esophagus resection and [Yakoubian, Bougeois, Marty, Marmuse & Desmots], A119
- transient analysis of respiration using ECG-triggered phrenic nerve stimulation [Peters, Kindred & Robotham], A81
- cardiopulmonary resuscitation**
- cardiopulmonary bypass vs., cardiac resuscitability and neurologic recovery after clinically relevant cardiac arrest of 20 min with [Angelos, Reich, Safar, Stezoski & Houghton], A147
- in dogs, comparison of phenylephrine and epinephrine on cerebral and myocardial perfusion and somatosensory evoked potentials during and following [Schleien, Koehler, Berkowitz, Dean, Gervais, Michael, Rogers & Traystman], A650
- drug circulation during cardiac arrest [Emerman, Pinchak, Hancock & Hagen], A149
- in infant swine, cerebral and myocardial blood flow response to increasing doses of epinephrine during [Berkowitz, Koehler, Schleien, Dean, Gervais, Michael, Rogers & Traystman], A649
- in man, pupil size as prognostic factor during [Steen-Hansen, Vaagenes & Hansen], A146
- in swine, effect of compression rate and duty cycle on cerebral perfusion pressure during [Koehler, Dean, Schleien, Berkowitz, Michael, Atchison, Rogers & Traystman], A152
- conduction**
- specialized, inhalation anesthetics and diltiazem on [Atlee, Brownlee & Kreigh], A60
- specialized, inhalation anesthetics and verapamil on [Atlee, Brownlee & Kreigh], A59
- verapamil accentuates effect of enflurane more than isoflurane or halothane on [Bosnjak, Marijic, Stowe & Kampine], A61
- congenital defects**
- cyanotic heart disease, accuracy of pulse oximetry in [Lazzell & Jopling], A169
- heart disease, effect of premedication on preoperative arterial oxygen saturation in children with [De Bock, Petrilli, Davis & Motoyama], A492
- heart disease, effect on pharmacokinetics of intravenous lidocaine in pediatrics [LeDez, Strong, Reider, Burrows & Lerman], A71
- heart disease, repair of, hyperventilation in infants after, pulmonary and systemic hemodynamic effects of [Wessel, Hickey & Hansen], A526
- contractility**
- comparative effects of ketamine and isoflurane on [Chang, Luk, Lin & Wei], A92
- effect of ribose administration on recovery following brief periods of ischemia [Sami & Bittar], A74
- effects of halothane on function of sarcoplasmic reticulum in skinned myocardial fibers of newborn and adult rabbit [Krane & Su], A93
- during halothane and isoflurane anesthesia, echocardiographic assessment of [Mazzei, Dan, Scheller, Dittrich & Sahn], A590
- left ventricular, determined by continuous esophageal Doppler [Thys, Hillel & Estioko], A77
- myosin isoenzyme shifts and effects of halothane on, in non-insulin treated spontaneously diabetic rats [Baum, Miletich, Clarke & Pelligrino], A95
- presence of amrinone differentially attenuates anesthetic-induced myocardial depression in vitro following isoflurane, but not halothane, anesthesia [Neal, Wolf & Mathew], A91
- in rat, during maturation, enflurane and [Shimosato, Mizukawa, Tinker, Ross & Kayaba], A97
- two-dimensional, usefulness of end systolic quotient and of fractional shortening for assessment of changes in, under different loading conditions [Heinrich, Fontaine, Wilder-Smith, Winter & Ahnefeld], A209
- coronary artery disease**
- hemodynamic effects of BW A938U in patients with, during oxygen sufentanil anesthesia [Stoops, Curtis, Kovach, McCammon, Stoelting & Warren], A368
- normovolemic hemodilution in anesthetized patients with, effects on hemodynamic and LV function of [Van Derr Linden, Baron, Philip, Arthaud, Coriat, Bertrand, Vicaut, Debat & Viars], A135
- normovolemic hemodilution in patients with, hemodynamic and metabolic responses to recovery in [Van Der Linden, Baron, Philip, Arthaud, Bertrand, Coriat, Vicaut, Debat & Viars], A79
- pre-bypass, cardiac medication as factor in [Chung, Cheng, Houston, Burns & David], A593
- as predictor of myocardial infarction by technetium pyrophosphate spectroscopy [Cheng, Chung, Burns, Houston & David], A594
- segmental wall motion in patients with, evaluated by two-dimensional echocardiography, after lumbar epidural anesthesia [Saada, Duval, Bonnet, Rey & Castillon], A270
- silent preoperative myocardial ischemia in surgical patients with [Wilton, Luckoff, Sachdev, Kirsh & Shea], A591
- stress of anesthesia and surgery and [Knight, Hollenberg, London, Tubau, Verrier, Browner & Mangano], A592
- coronary blood flow**
- regional myocardial ischemia develops during acute pulmonary hypertension when right coronary artery stenosis is present [Priebe], A6
- coronary occlusion**
- acute, increased adenosine production by heart during, in man [Bardenheuer, Hoffing, Fabry & Peter], A311
- critical, canine model of, gradual or abrupt nitrous oxide administration in, regional myocardial dysfunction induced by, which is worsened by halothane [Leone, Philbin, Lehot & Foex], A676
- dissimilar effects of isoflurane vs. dipyridamole on myocardium supplied by chronically narrowed coronary artery in dog [Zimpfer, Mayer & Steinbereithner], A587

- droperidol abolishes acute thrombus formation in stenosed dog coronary arteries [Bertha, Sill, Nugent & Folts], A78
- dipyridamole thallium imaging in prediction of cardiac risk in patients scheduled for abdominal aortic surgery [Bertrand, Godet, Baron, Coriat, Mundler, Fauchet & Viars], A17
- disease**
- valvular, hemodynamic effects of BW A938U in patients with, during oxygen sufentanil anesthesia [Stoops, Curtis, Kovach, McCammon, Stoelting & Warren], A368
- electrocardiography, See also under Measurement techniques; Monitoring**
- are anesthesia and surgery truly stressful to ischemic heart [Knight, Hollenberg, London, Tubau, Verrier, Browner & Mangano], A592
- and cardiac medication as factor in pre-bypass myocardial ischemia [Chung, Cheng, Houston, Burns & David], A593
- effects of flecainide during enflurane anesthesia in dog [Pettit & Kapur], A98
- and silent preoperative myocardial ischemia in surgical patients with ischemic heart disease [Wilton, Luckoff, Sachdev, Kirsh & Shea], A591
- electrophysiology**
- does bupivacaine cardiotoxicity impede only sodium channels [d'Athis, Eledjam, de la Coussaye, Brugada, Desch & Sassine], A275
- verapamil effects on, in presence of enflurane and chloralose [Hantler, Stockton, Mattson & Knight], A96
- function**
- effects of flecainide during enflurane anesthesia in dog [Pettit & Kapur], A98
- effects of pipercuronium bromide in CABG patients [Wierda, Karliczek, van den Brom, Kersten-Kleef & Agoston], A613
- halothane directly inhibits sarcoplasmic reticular function in intact myocardium [Komai & Rusy], A54
- left ventricular, amrinone and [Grayson, Marino, Yaster, Weiss & Kass], A600
- left ventricular, and milrinone with amrinone vs. nitroprusside during enflurane anesthesia in dog [Makela & Kapur], A601
- left ventricular, effects of nicardipine vs. trinitrin for treatment of postoperative hypertension on [Benammar, Coriat, Houissa, Bruere, Brusset, Hag & Viars], A139
- left ventricular, effects of normovolemic hemodilution in anesthetized patients with coronary artery disease on [Van Der Linden, Baron, Philip, Arthaud, Coriat, Bertrand, Vicaut, Debat & Viars], A135
- left ventricular, gradual or abrupt nitrous oxide administration in canine model of critical coronary stenosis induced regional myocardial dysfunction that is worsened by halothane [Leone, Philbin, Lehot & Foex], A676
- left ventricular, in coronary artery disease patients, evaluated by two-dimensional echocardiography, after lumbar epidural anesthesia [Saada, Duval, Bonnet, Rey & Castillon], A270
- left ventricular, poor, lumbar epidural anesthesia improves ejection fraction in patients with [Coriat, Benammar, Baron, Van Der Linden, Montejo, Bertrand, Daas & Viars], A259
- left ventricular, predictors of, in post cardiopulmonary bypass period [Ossey, Hawkins, Reves & McIntyre], A596
- left ventricular, with local anesthetics and diltiazem in conscious dogs [Ahmad, Edouard, Berdeaux, Froidevaux & Samii], A271
- peripheral effects of dobutamine in postoperative low-cardiac-output state [Cork, Gallo Jr., Levinson, Smith & Copeland], A41
- peripheral effects of isoproterenol in postoperative low-cardiac-output state [Cork, Gallo Jr., Levinson, Smith & Copeland], A43
- right ventricular, effect on relationship between pericardial pressure and right atrial pressure during positive end-expiratory pressure [Biondi, Schulman, Matthay & Barash], A555
- right ventricular, isolated failure, role in mechanism of myocardial dysfunction during liver transplantation [Ellis, Lichtor, Chung, Polk, Emond, Broelsch, Thistlethwaite, Feinstein & Roizen], A82
- time course of negative inotropic effects of enflurane in isolated mammalian cardiac muscle [Housmans & Murat], A52
- ventricular, combined effects of amrinone and dobutamine [Sciolaro, Carrier, Emery, Cork, Gallo, Barkenbush, Perrotta & Copeland], A42
- ventricular, direct vs. indirect effects of alfentanil and midazolam [Flacke, Vercellino, Flacke, McIntee & Van Etten], A47
- ventricular, effects of enflurane on [Housmans & Murat], A51
- ventricular, nitrous oxide does not worsen ischemic left ventricular dysfunction in pig [Cason, Mazer, Demas & Hickey], A46
- ventricular, regional, assessment of by radionuclide angiocardiology during endotracheal intubation [Sell, Croughwell, Camporesi, Jones & Reves], A27
- inotropism**
- amrinone and, in vivo [Grayson, Marino, Yaster, Weiss & Kass], A600
- combined effects of amrinone and dobutamine [Sciolaro, Carrier, Emery, Cork, Gallo, Barkenbush, Perrotta & Copeland], A42
- comparative effects of ketamine and isoflurane in isolated human atrial tissues [Chang, Luk, Lin & Wei], A92
- effects of dobutamine on systolic and diastolic coronary bypass graft flow in humans [Beloucif, Payen, Laborde, Bousseau & Echter], A40
- mechanisms of action of protamine sulfate on isolated mammalian cardiac muscles [Housmans & Ferguson], A24
- and milrinone with amrinone vs. nitroprusside during enflurane anesthesia in dog [Makela & Kapur], A601
- negative effects of enflurane in isolated mammalian cardiac muscle, time course of [Housmans & Murat], A52
- peripheral effects of dobutamine in postoperative low-cardiac-output state [Cork, Gallo Jr., Levinson, Smith & Copeland], A41
- peripheral effects of isoproterenol in postoperative low-cardiac-output state [Cork, Gallo Jr., Levinson, Smith & Copeland], A43
- presence of amrinone differentially attenuates anesthetic-induced myocardial depression in vitro following isoflurane, but not halothane, anesthesia [Neal, Wolf & Mathew], A91
- ischemia**
- brief periods of, effect of ribose administration on contractile recovery following [Sami & Bittar], A74
- in collateral-dependent myocardium, blood pressure and heart rate predict [Bullington, Bashein & Sivarajan], A5
- development during acute pulmonary hypertension when right coronary artery stenosis is present [Priebe], A6
- effect on relationship between pericardial pressure and right atrial pressure during positive end-expiratory pressure [Biondi, Schulman, Matthay & Barash], A555
- global, during narcotic anesthesia, effect of adrenergic stress response on myocardial tolerance of [Hill, Pollard, Simeone, Reves & Lowe], A73
- intraoperative, ST segment trends in prediction of [Ellis, Roizen, Aronson, Feinstein & Briller], A2
- isoflurane and [LaMantia, Acampora, Prokop, Ezekowitz, Slavik & Barash], A586
- and moderate hypotensive anesthesia with enflurane and isoflurane

- rane [Hobbhahn, Conzen, Goetz, Seidel, Gonschior, Brendel & Peter], A589
- after neuromuscular blockade reversal [Tse, Bause & Barash], A618
- perioperative, are anesthesia and surgery truly stressful with [Knight, Hollenberg, London, Tubau, Verrier, Browner & Mangano], A592
- in pig, nitrous oxide does not worsen [Cason, Mazer, Demas & Hickey], A46
- pre-bypass, cardiac medication as factor in [Chung, Cheng, Houston, Burns & David], A593
- prediction of, by pressure-rate ratio and diastolic time during coronary artery bypass surgery [Shiraki, Hong, Jo, Strom, Goldiner & Oka], A595
- as predictor of myocardial infarction by technetium pyrophosphate spectroscopy [Cheng, Chung, Burns, Houston & David], A594
- preoperative, silent, in surgical patients with ischemic heart disease [Wilton, Luckoff, Sachdev, Kirsh & Shea], A591
- preoperative, silent, not correlated with anxiety, stress, and catecholamine levels [Wilton, Sachdev, Luckoff, Kirsh & Shea], A470
- preoperative, silent, in patients with unstable angina [Metzler, Gombotz, List & Rehak], A3
- isoproterenol**
- chronotropic effect of, reduction of, in pregnant women [DeSimone, Leighton, Norris, Chayen & Menduke], A460
- muscle**
- mammalian, isolated, mechanisms of action of inotropic effects of protamine sulfate on [Housmans & Ferguson], A24
- mammalian, isolated, time course of negative inotropic effects of enflurane in [Housmans & Murat], A52
- papillary, myocardial depressant effects of isoflurane vs. halothane in immature and mature feline papillary function of [Wolf, Neal & Mathew], A504
- rat, during maturation, mechanical properties of, enflurane and [Shimosato, Mizukawa, Tinker, Ross & Kayaba], A97
- myocardial function**
- depression, anesthetic-induced, presence of amrinone differentially attenuates in vitro following isoflurane, but not halothane, anesthesia [Neal, Wolf & Mathew], A91
- effects of enflurane on [Housmans & Murat], A51
- effects of isoflurane vs. sufentanil on experimental infarction [Davis, Sidi, McCallum, Rush & Ruiz], A99
- mechanism of dysfunction during liver transplantation, role of isolated right ventricular failure in [Ellis, Lichtor, Chung, Polk, Emond, Broelsch, Thistlethwaite, Feinstein & Roizen], A82
- subcellular effects of fentanyl and [Adams, Pruett, Blaire, Crumrine & Balser], A62
- tolerance of global ischemia during narcotic anesthesia, effect of adrenergic stress response on [Hill, Pollard, Simeone, Reves & Lowe], A73
- in vitro effects of benzodiazepine agonists and antagonists [Boyle III, White & Rendig], A63
- myocardium**
- beta-adrenoceptor density in, decreased by halothane, in dogs, as assessed by positron emission tomography [Maze, Marty, Seto, Crouzel, Valloise, Crouzel, Lancon & Syrota], A55
- bupivacaine arrhythmogenicity in heart cell culture, progesterone effect on [Baum, Miletich & Curran], A439
- collateral flow dependent, oxygenation of, during isoflurane anesthesia [Conzen, Hobbhahn, Goetz, Seidel, Gonschior, Peter & Brendel], A588
- contractility during halothane and isoflurane anesthesia, echocardiographic assessment of [Mazzei, Dan, Scheller, Dittrich & Sahn], A590
- effects of caffeine on transmembrane potential in halothane-pre-treated heart preparations isolated from malignant hyperthermia susceptible pigs [Roewer, Rumberger, Dziadzka & Schulte am Esch], A297
- effects of halothane on function of sarcoplasmic reticulum in skinned myocardial fibers of newborn and adult rabbit [Krane & Su], A93
- effects of lidocaine on single sodium channel currents in canine ventricular cells [Berman, Camardo & Siegelbaum], A426
- halothane transiently increases free intracellular calcium concentration in isolated adult rat heart cells [Wheeler, Rice, Hansford & Lakatta], A94
- intact, sarcoplasmic reticular function in, direct inhibition by halothane of [Komai & Rusy], A54
- isoflurane and ischemia [LaMantia, Acampora, Prokop, Ezekowitz, Slavik & Barash], A586
- mechanisms of action of inotropic effects of protamine sulfate on isolated mammalian cardiac muscles [Housmans & Ferguson], A24
- myosin isoenzyme shifts in non-insulin treated spontaneously diabetic rats [Baum, Miletich, Clarke & Pelligrino], A95
- rat, during maturation, mechanical properties of, enflurane and [Shimosato, Mizukawa, Tinker, Ross & Kayaba], A97
- sensitization of, by halothane, mechanism of action of α_1 -adrenoceptor agonists in [Hayashi, Sumikawa, Tashiro & Yoshiya], A56
- supplied by chronically narrowed coronary artery, in dog, dissimilar effects of isoflurane vs. dipyridamole on [Zimpfer, Mayer & Steinbereithner], A587
- oxygen consumption**
- of collateral flow dependent myocardium during isoflurane anesthesia [Conzen, Hobbhahn, Goetz, Seidel, Gonschior, Peter & Brendel], A588
- and moderate hypotensive anesthesia with enflurane and isoflurane [Hobbhahn, Conzen, Goetz, Seidel, Gonschior, Brendel & Peter], A589
- propranolol**
- as factor in pre-bypass myocardial ischemia [Chung, Cheng, Houston, Burns & David], A593
- rate**
- acute administration of clonidine and, naloxone reversal of changes caused by [Raybould, Bloor, McIntee & Flacke], A392
- baroreflex control of, effects of propofol on, in humans [Samain, Marty, Gauzit, Bouyet, Couderc & Desmonts], A75
- blood pressure relationship to, as clinical index of baroreceptor function [Koushanpour, Behnia, Sinclair & Chang], A76
- effect of isoproterenol is reduced in pregnant women [DeSimone, Leighton, Norris, Chayen & Menduke], A460
- effects of alinidine in patients after open heart surgery [Spiss, Rosenits, Haslinger, Redl & Haider], A44
- effects of BW A938U on [Konstadt, Thys, Reich, Keusch & Kaplan], A369
- effects of BW A938U vs. pancuronium on [Murray, Mehta, Forbes, Choi, Sokoll, Gergis, Krol & Abou-Donia], A367
- effects of BW B1090U during nitrous oxide-oxygen-narcotic anesthesia [Forbes, Choi, Mehta, Murray, Sokoll, Gergis, Douglas & Abou-Donia], A360
- effects of intrathecal perioperative morphine on [Chester, Schubert, Brandon, Pudimat & Pray], A267
- effects of pipecuronium bromide in CABG patients [Wierda, Karliczek, van den Brom, Kersten-Kleef & Agoston], A613
- effects of UL-FS 49 vs. propranolol in conscious and isoflurane-

- anesthetized chronically instrumented dogs [Wartier, Riley, Gross, Schmeling & Kampine], A48
- esmolol for treatment of intraoperative tachycardia [Reves, Croughwell, Hawkins & Jacobs], A33
- during fentanyl anesthesia in newborn infants, baroreceptor reflex control of [Murat, Levron & Saint-Maurice], A523
- left ventricular, with local anesthetics and diltiazem in conscious dogs [Ahmad, Edouard, Berdeaux, Froidevaux & Samii], A271
- and prediction of ischemia in collateral-dependent myocardium [Buffington, Bashein & Sivarajan], A5
- prediction of myocardial ischemia by pressure-rate ratio and diastolic time during coronary artery bypass surgery [Shiraki, Hong, Jo, Strom, Goldiner & Oka], A595
- sevoflurane in newborn swine and [Gallagher, Burrows, Miyasaka, Volgyesi & Lerman], A503
- transplantation**
- comparison of cardiac outputs determined by impedance cardiography and thermodilution in patients [Mintz, Dirkes, Melvin, Silver & Denson], A213
- vascular pressures**
- effects of α_1 -adrenergic bolus administration in anesthetized patients [Schwinn, Clements, Hawkins, Kates & Reves], A72
- effects of BW A938U on [Konstadt, Thys, Reich, Keusch & Kaplan], A369
- effects of BW A938U on, in coronary artery bypass graft and valve replacement patients receiving oxygen sufentanil anesthesia [Stoops, Curtis, Kovach, McCammon, Stoelting & Warren], A368
- is CVP the appropriate downstream pressure in systemic vascular resistance calculations [Beattie, Stevenson, Maruschak, Rosenfeld & Watkins], A87
- and milrinone with amrinone vs. nitroprusside during enflurane anesthesia in dog [Makela & Kapur], A601
- and oxygenation of collateral flow dependent myocardium during isoflurane anesthesia Conzen, Hobbhahn, Goetz, Seidel, Gonschior, Peter & Brendel], A588
- wall motion**
- assessment of, by radionuclide angiocardiology, during endotracheal intubation [Sell, Croughwell, Camporesi, Jones & Reves], A27
- segmental, in coronary artery disease patients after lumbar epidural anesthesia, evaluated by two-dimensional echocardiography [Saada, Duval, Bonnet, Rey & Castillon], A270
- Heating, See under Temperature**
- Hematoma, See under Complications**
- Hemodilution, See under Blood**
- Hemoglobin, See under Blood**
- Hemolysis, See under Blood**
- Hemorrhage, See also Blood, loss**
- compensatory humoral and hemodynamic responses to, enflurane alteration of [Zimpfer, Mayer, Kotai & Placheta], A53
- deliberate hypotension complicated by, regional cerebral blood flows during [Sperry, Monk, Durieux, Walker & Longnecker], A575
- subarachnoid, due to aneurysm rupture, cerebral vasospasm after, curative treatment with intravenous nimodipine for [Gugliari, Taquai, Philippon & Viars], A584
- subarachnoid, treatment with nimodipine affects pulmonary gas exchange in patients requiring controlled mechanical ventilation [Germann, Aloy, Zabloudil, Richling & Zimpfer], A115
- Heparin, See under Blood, anticoagulants**
- High frequency jet ventilation, See under Ventilation**
- Hip replacement, See under Surgery, orthopedic**
- Histamine**
- antagonists**
- cimetidine**
- cardiovascular reactions due to histamine release during bone-cement implantation for total hip joint replacement [Tryba, Thole & Wruck], A68
- influence on duration of vecuronium neuromuscular blockade in postpartum patients vs. nonpregnant controls [Tessem, Adenwala, Camp & Joyce], A451
- ranitidine**
- influence on duration of vecuronium neuromuscular blockade in postpartum patients vs. nonpregnant controls [Tessem, Adenwala, Camp & Joyce], A451
- effects of oxymorphone or fentanyl on plasma concentrations of [Fahmy, Bottros, Charchafieh, Sunder & Carr], A395
- peripheral airway responses to [Lindeman, Freed & Hirshman], A545
- release of, from lung mast cells of asthmatic vs. nonasthmatic dogs [Hirshman, Austin & Kettlekamp], A544
- systemic release of, by epidural morphine [Korsh, Ramanathan, Parker & Turndorf], A445
- Hormones**
- antidiuretic**
- release of, by epidural morphine [Donnenfeld, Ramanathan, Parker, Vargas & Turndorf], A446
- response during nitroprusside induced hypotension, clonidine reduction of [Ghignone, Quintin, Noe & Calvillo], A38
- stress response following reversal of benzodiazepine-induced sedation [White, Shafer, Boyle & Doze], A661
- glucocorticoids**
- mechanism of action of, on airways [Darowski, Hannon, Rennie & Hirshman], A546
- progesterone**
- bupivacaine arrhythmogenicity in heart cell culture and [Baum, Mileich & Curran], A439
- prostaglandins**
- arachidonic acid derivatives, interactions with pulmonary capillary pressure and platelet microaggregates in acute lung injury [Cope, Taylor, Longenecker, Fontenelle & Miller], A652
- effects in porcine model of pulmonary hypertension [Prielipp, Pearl, McLean & Rosenthal], A154
- evidence that endogenous leukotrienes do not play major role for hypoxic pulmonary vasoconstriction in pigs [Conzen, Zenker, Vollmar, Hobbhahn, Goetz, Martin & Brendel], A310
- indomethacin**
- effects on surfactant-deficient lung injury of cyclooxygenase inhibition with [Fung, Burger & Bryan], A112
- mediation of adverse effects of protamine sulfate by [Hobbhahn, Conzen, Zenker, Goetz, Brendel & Peter], A25
- prostacyclin**
- effects in porcine model of pulmonary hypertension [Prielipp, Pearl, McLean & Rosenthal], A154
- role of leukotrienes in hypoxic pulmonary vasoconstriction in sheep [Pearl & Prielipp], A549
- tosyl arginyl methyl ester (TAME) blocks thromboxane A₂ mediated pulmonary vasoconstriction [Crowley, Gurtner & McShane], A109
- vasodilator therapy in vasoconstrictor model of pulmonary hypertension in sheep [Prielipp, Pearl & Rosenthal], A104
- Hydromorphone, See under Analgesics, narcotic**
- 5-Hydroxytryptamine, See Serotonin**
- Hyperbaria**
- nitrogen**
- detection of venous air embolism by emission spectrometry and

- mass spectrometry during [Russell, Snider, Richard & Loomis], A436
- Hypercapnia, See Carbon dioxide, hypercarbia**
- Hypercarbia, See under Carbon dioxide**
- Hyperglycemia, See under Metabolism**
- Hypertension, See under Blood pressure; Complications**
- Hyperthermia**
- malignant pyrexia
- model for, dantrolene antagonizes synergistic hemolysis of human red blood cells by halothane and phospholipase A₂ [Fletcher, Kistler, Rosenberg, Michaux & Tripolitis], A298
- noninvasive detection of susceptibility to, by in vivo ³¹P NMR [Olgin, Argov, Rosenberg & Chance], A166
- patch clamp whole-cell currents in cultured skeletal muscle from patients susceptible to [Wieland, Fletcher & Rosenberg], A318
- pigs susceptible to, effects of caffeine on transmembrane potential in halothane-pretreated heart preparations isolated from [Roewer, Rumberger, Dziadzka & Schulte am Esch], A297
- in susceptible swine, BW A938U does not trigger [Kreul, Sufit, Brunson, Bellay & Will], A299
- whole body, under general anesthesia, serum creatinine concentration and clearance during [Cronau Jr., Mansfield & Bull], A306
- Hyperventilation, See Carbon dioxide, hypocarbia**
- Hypnotics, See also Anesthetics, intravenous**
- barbiturates
- etomidate
- comparison of infusion techniques during regional anesthesia [Urquhart & White], A265
- morphine and fentanyl anesthetic interactions with [Kissin, Brown & Bradley Jr.], A383
- methohexital
- comparison of infusion techniques during regional anesthesia [Urquhart & White], A265
- pentobarbital
- effects on cerebral blood flow of, isoflurane influence on [Scheller, Smith, Todd & Drummond], A406
- benzodiazepines
- diazepam
- in vitro myocardial effects [Boyle III, White & Rendig], A63
- oral solution with meperidine and atropine, oral transmucosal fentanyl citrate vs., for premedication in children [Nelson, Streisand, Mulder, East & Stanley], A490
- lorazepam
- auditory amnesia induced by, time course of, relationship to cognitive evoked potentials of, in humans [Samra, Bradshaw, Pandit, Moore & Papanicolaou], A420
- midazolam
- comparison of infusion techniques during regional anesthesia [Urquhart & White], A265
- in vitro myocardial effects [Boyle III, White & Rendig], A63
- intramuscular, outpatient premedication with [Shafer, Urquhart, Doze & White], A419
- pharmacological quantitation of CNS drug effect in hypnotic doses [Buhrer, Maitre, Ebling & Stanski], A658
- sedative and ventilatory effects of [Mora, Torjman & DiGiorio], A534
- sedative doses significantly depress hypoxic ventilatory drive in man [Alexander & Gross], A533
- Hypocapnia, See Carbon dioxide, hypocarbia**
- Hypocarbia, See under Carbon dioxide**
- Hypoglycemia, See under Metabolism**
- Hypokalemia, See under Ions, potassium**
- Hypotension, See under Anesthetic techniques; Blood pressure; Complications**
- Hypothermia, See under Anesthetic techniques**
- Hypovolemia, See under Blood, loss; Blood, volume**
- Hypoxia, See also Oxygen**
- characterization of xanthine dehydrogenase conversion to xanthine oxidase during renal ischemia [Pearson, Beckman, Freeman & Parks], A305
- effects of fluoride ion on ischemic and non-ischemic canine kidney [Rice, Southard, Hjelmhaug & Belzer], A304
- evidence against central chemoreceptor control of cerebral blood flow with [Miyabe, Koehler, Jones Jr., Gurtner & Traystman], A84
- fetal, intravenous clonidine produces [Eisenach, Rose, Dewan & Grice], A449
- hypercarbic, in dogs, regional venous outflow, systemic blood volume and sympathetic nerve activity during [Hoka, Arimura, Bosnjak & Kampine], A105
- inhibition of hypoxic constriction: synthesis of vasodilator or consumption of substrate [Marshall, Ishibe & Marshall], A325
- in vitro, role of lactic acidosis in neuronal tissue damage inflicted by [Rigor, Dong, Brahen, West & Schurr], A322
- intraoperative, minimizing, does not affect postpneumonectomy lung growth [Karl & Rannels], A319
- intravenous clonidine producing [Eisenach], A49
- marked, after gastropasty, due to disorders of breathing in REM sleep [Knill, Moote, Rose & Skinner], A552
- in mice, survival time in, nimodipine, pentobarbital and [Baker, Costas, Gintautas, Doss, Humayun & Abadir], A430
- prevention of, oxygen administration in, during postoperative transport in children [Patel, Norden & Hannallah], A529
- pulmonary vascular response to, in isolated sheep lungs, effect of pentobarbital on [Martin & Wetzel], A326
- pulmonary vasoconstriction with, evidence that endogenous leukotrienes do not play major role for, in pigs [Conzen, Zenker, Vollmar, Hobbhahn, Goetz, Martin & Brendel], A310
- pulmonary vasoconstriction with, in sheep, role of leukotrienes in [Pearl & Prielipp], A549
- pulmonary vasoconstriction with, microhemodynamic changes in pulmonary microcirculation during [Goetz, Conzen, Berger, Hobbhahn & Brendel], A309
- during recovery from anesthesia, incidence of, pulse oximetry and [Buschman, Morris, Warren, Philip & Raemer], A481
- regional, effects of, on air embolism induced pulmonary edema [Overand, Eisenstein, Bishop & Cheney], A550
- toxicity of, in monolayers of rat hepatocytes [Schieble, Costa, Heffel & Trudell], A316
- unilateral, canine, low-dose almitrine bismesylate enhances hypoxic pulmonary vasoconstriction during [Chen, Miller, Clarke, Clergue, Marshall & Marshall], A548
- unilateral, longitudinal distribution of pulmonary vascular resistance during [Siegel, Pearl, Shafer & Ream], A554
- ventilatory responses to, effect of sufentanil infusion on, during isoflurane anesthesia in dogs [Abdul-Rasool, Aqleh, Jenkins, Valcke & Ward], A539
- ventilatory sensitivity to, after administration of agonist/antagonist [Camporesi, Glass, Moon, Steinhaus & Wagoner], A541
- I**
- ICP, See Brain, intracranial pressure**
- Immune response**
- tachyphylaxis
- to sodium nitroprusside, effect of captopril on [Stead, Bloor, Van Etten & Flacke], A37

Indomethacin, See under Hormones, prostaglandins

Induction, See also under Anesthetic techniques

enzymes

phenobarbital, toxicity of, in monolayers of rat hepatocytes [Schieble, Costa, Heffell & Trudell], A316

Infants, See Anesthesia, pediatric; Surgery, pediatric

Infection

long term sterility of diluted or pre-drawn solutions of succinylcholine, ephedrine, thiopental, and curare [Mayweather, Santos, Juneja & Stanek], A160

pulmonary

diagnosis in mechanically ventilated patients, evaluation of new protected bronchial catheter for [Rossignon, Rouby, Belbachir, Nicolas, Martin de Lassale & Viars], A123

risk of, and prevention of stress bleeding in ventilated ICU patients [Tryba], A124

septicemia

cerebrovascular reactivity to carbon dioxide preserved in [Bertels, Prough, Stump, Phipps & Chappell], A414

gram-negative, volume of distribution of patients in ICU with [Mitchell, Wilson, Dodek & Russell], A126

hemodynamic derangements of, attenuation of, bacterial elimination and, enhancement of, from total parenteral nutrition with lipid [Doty, Dehring, Kraft, Traber & Herndon], A150

Inotropism, See under Heart

Insufflation, See under Anesthetic techniques

Insulin, See under Metabolism

Intensive care

enhancement of bacterial elimination and attenuation of hemodynamic derangements of sepsis from total parenteral nutrition with lipid [Doty, Dehring, Kraft, Traber & Herndon], A150

pharmacokinetics of fentanyl during continuous infusion in [Alazia, Levron, Guidon & Francois], A665

postoperative, hemodynamic effects of extubation in [Russell, Kofke, High & Snider], A131

predicted vs. measured energy requirement [Fallon, Tonnesen, Maslovitz & Hernandez], A158

prevention of stress bleeding and risk of nosocomial pneumonia in ventilated patients in [Tryba], A124

volume of distribution in patients with gram-negative sepsis in [Mitchell, Wilson, Dodek & Russell], A126

Interactions (drug), See also Antagonists; Antagonists, narcotic; Antagonists, neuromuscular relaxants

anesthetic efficacy of midazolam in enflurane anesthetized dog [Hall, Lasker & Hug Jr.], A657

clonidine reduces ADH response and dose requirement during nitroprusside induced hypotension [Ghignone, Quintin, Noe & Calvillo], A38

does clonidine potentiate morphine [Sperry, DiFazio & Moscicki], A391

effect of captopril on tachyphylaxis to sodium nitroprusside [Stead, Bloor, Van Etten & Flacke], A37

fentanyl and pentobarbital, on cerebral and peripheral hemodynamics in newborn lambs [Yaster, Koehler & Traystman], A516

intrathecal morphine reduces MAC of isoflurane in rat [Drasner, Bernards & Ciriales], A670

ketamine analgesia in morphine tolerant mice [Finck, Samaniego & Ngai], A396

nitrous oxide and isoflurane, on regional cerebral ischemia in rat [Baughman, Hoffman, Albrecht & Miletich], A578

phenytoin does not interfere with atracurium pharmacokinetics and pharmacodynamics [deBros, Okutani, Lai, Lawrence & Basta], A607

synergistic, morphine and fentanyl, with etomidate [Kissin, Brown & Bradley Jr.], A383

synergistic, morphine and halothane, in vitro [Puig, Warner, Tang, Lovitz & Turndorf], A411

Intercostal anesthesia, See under Anesthetic techniques, regional

Intracranial pressure, See under Brain

Intraocular pressure, See under Eyes

Intrathecal anesthesia, See Anesthetic techniques, spinal

Intravenous anesthesia, See under Anesthetic techniques, regional
Intubation, endotracheal

assessment of wall motion by radionuclide angiocardiology during [Sell, Croughwell, Camporesi, Jones & Reves], A27

awake rigid and fiberoptic laryngoscopy, cardiovascular changes during [Schrader, Ovassapian, Dykes & Avram], A28

complications, endobronchial intubation, pulse oximetry in detection of [Barker, Tremper, Hyatt, Zaccari & Thaurer], A170

difficult, prediction of [Arora, Patterson, Hagen & Pinchak], A472

facilitation of, in outpatient surgical unit, comparison of BW B1090U with succinylcholine for [McPeck, Nozik, Walzer, Embree & Schwartz], A352

hemodynamic responses to, ablation of, with preinduction of intravenous labetalol [Leslie, Kalayjian, McLoughlin, Russell & Plachetka], A30

hemodynamic responses to, control of, aerosolized and intravenous lidocaine are no more effective than placebo for [Laurito, Baughman, Polek, Riegler & VadeBoncouer], A29

hemodynamic responses to, effect of labetalol on [Inada, Cullen, Nemeskal & Teplick], A31

sixty-second, with BW B1090U, after fentanyl-thiopental induction [Savarese, Ali, Basta, Embree & Risner], A351

technique

abolition of gagging and hemodynamic response to awake laryngoscopy [Woods & Lander], A220

cephalad displacement of larynx for facilitation of [Salem, Heyman, Livschutz & Mahdi], A453

retrograde, in trauma patients [Riou, Barriot, Bodenan & Viars], A130

Ions

calcium

halothane transiently increases free intracellular concentration in isolated adult rat heart cells [Wheeler, Rice, Hansford & Lakatta], A94

halothane vs. enflurane vs. isoflurane, and effects on transport and channel release functions in isolated skeletal muscle SR membranes [Nelson & Sweo], A300

inhibition of transsarcolemmal influx by isoflurane [DeTraglia, Komai & Rusy], A50

lidocaine alters phosphatidylinositol hydrolysis in vascular endothelial cells [Brown & Robinson-White], A277

spontaneous release of, from isolated sarcoplasmic reticulum of rabbit white skeletal muscle, effects of volatile anesthetics on [Peterson Jr., Baroody & Blanck], A317

calcium channel blockers

diltiazem

inhalation anesthetics and, on specialized intracardiac conduction [Atlee, Brownlee & Kreigh], A60

local anesthetics and, in conscious dogs [Ahmad, Edouard, Berdeaux, Froidevaux & Samii], A271

negative chronotropic actions of sufentanil and vecuronium in chronically instrumented dogs pretreated with [Schmeling, Kampine, Bernstein & Wartier], A90

nicardipine

intravenous, for treatment of intraoperative hypertension [Begon, Dartayet, Edouard, David & Samii], A39

- intravenous, for treatment of postoperative hypertension [Casar, Pool, Chelly, Barton, Turlapaty & Laddu], A141
- trinitrin vs., for treatment of postoperative hypertension, effects on hemodynamics and left ventricular function [Benammar, Coriat, Houissa, Bruere, Brusset, Hag & Viars], A139
- nifedipine**
effects in porcine model of pulmonary hypertension [Prielipp, Pearl, McLean & Rosenthal], A154
- nimodipine**
intravenous, curative treatment with, for cerebral vasospasm after subarachnoid hemorrhage due to aneurysm rupture [Guggiari, Taquai, Philippon & Viars], A584
- pentobarbital and, survival time in hypoxic mice and [Baker, Costas, Gintautas, Doss, Humayun & Abadir], A430
- treatment of subarachnoid hemorrhage with, and pulmonary gas exchange in patients requiring controlled mechanical ventilation [Germann, Aloy, Zabloudil, Richling & Zimpfer], A115
- nisoldipine**
intravenous, prevention of post carotid endarterectomy hypertension with, hemodynamic and hyperadrenergic response to recovery [Braz, Coriat, Bertrand, Cheour, Landau, Mouquet & Viars], A140
- UL-FS 49**
propranolol vs., hemodynamic effects of, in conscious and isoflurane-anesthetized chronically instrumented dogs [Warltier, Riley, Gross, Schmeling & Kampine], A48
- verapamil**
accentuates effects of enflurane more than isoflurane or halothane on A-V conduction time and incidence of complete A-V block in isolated guinea pig heart [Bosnjak, Marijic, Stowe & Kampine], A61
- bupivacaine-induced neural conduction blockade potentiated by [Parris, Misulis, Kambam, Franks & Dettbarn], A250
- effect on spleen in early stage of canine *E. coli* endotoxin shock [Kimura, Hakoshima, Goto, Tomlinson, Krug & Arakawa], A128
- effects on cardiac electrophysiology in presence of enflurane and chloralose [Hantler, Stockton, Matson & Knight], A96
- inhalation anesthetics and, on specialized intracardiac conduction [Atlee, Brownlee & Kreigh], A59
- fluoride**
effects on ischemic and non-ischemic canine kidney [Rice, Southard, Hjelmhaug & Belzer], A304
- magnesium**
neuromuscular transmission studies in preeclamptic women receiving [Ramanathan, Sibai, Pillai & Angel], A633
- and relaxation of isolated human uterine arteries [Suresh & Nelson], A636
- potassium**
aortic root concentrations, in swine, comparison of effects of central vs. peripheral bolus injection of potassium chloride on [Scheller, Mazzei, Zornow & Mitchell], A108
- in arterial blood samples, measurement of, effect of needle size on [Pinchak, Shepard, Hagen, Hancock & Schulz], A480
- heart, and duration of epinephrine induced arrhythmia, in rat, effects of chronic hypokalemia on [Albrecht, Miletich & Less], A70
- uptake, glucose uptake and, dissociation of responses to hyperinsulinemia in critically ill patients [Shangraw, Miyoshi, Jahoor, Stuart, Neff & Wolfe], A129
- sodium**
bupivacaine cardiotoxicity and [d'Athis, Eledjam, de la Coussaye, Brugada, Desch & Sassine], A275
- effects of lidocaine on single sodium channel currents in canine ventricular cells [Berman, Camardo & Siegelbaum], A426
- excretion of, control of, by atrial natriuretic factor, during cardiac surgery by [Wood, Bullington, Hammon, Imada & Inagami], A18
- hyponatremia following surgery of spine [Shibutani, Komatsu, Taddonio & Lees], A157
- prevention of hypervolemic hyponatremia syndrome by continuous monitoring [Watkins-Pitchford & Learned], A216
- Ischemia, See under individual organs**
- Isoflurane, See under Anesthetics, volatile**
- Isoproterenol, See under Heart; Sympathetic nervous system, sympathomimetic agents**
- K**
- Ketamine, See under Anesthetics, intravenous**
- Kidney**
failure
bupivacaine pharmacokinetics during axillary brachial plexus block in [Chauvin, Mazoit, Andrivon, Goeau & Duvaldestin], A261
- influence on pharmacokinetics and duration of action of pipercuronium bromide [Caldwell, Canfell, Castagnoli, Lynam, Fahey, Fisher & Miller], A612
- isoflurane metabolism in obese rats with [Fish, Rice & Margary], A303
- patients with, pharmacokinetics of atracurium and metabolites in [van den Brom, Wierda & Agoston], A606
- function**
atrial natriuretic peptide and effects of PEEP ventilation [Kharasch, Yeo, Laposky, Kenny & Buffington], A330
- effects of fluoride ion on ischemic and non-ischemic canine kidney [Rice, Southard, Hjelmhaug & Belzer], A304
- serum creatinine concentration and clearance during whole body hyperthermia ($\geq 41.5^{\circ}\text{C}$) under general anesthesia [Cronau Jr., Mansfield & Bull], A306
- metabolism**
characterization of xanthine dehydrogenase conversion to xanthine oxidase during renal ischemia [Pearson, Beckman, Freeman & Parks], A305
- toxicity**
effects of fluoride ion on ischemic and non-ischemic canine kidney [Rice, Southard, Hjelmhaug & Belzer], A304
- Kinetics, See under Pharmacokinetics**
- Knee replacement, See under Surgery, orthopedic**
- L**
- Labetalol, See under Sympathetic nervous system, sympatholytic agents**
- Labor, See under Anesthesia, obstetric**
- Lactic acidosis, See under Acid-base equilibrium, acidosis**
- Laparoscopy, See under Surgery**
- Laryngoscopes, See under Equipment**
- Laryngoscopy, See under Anesthetic techniques; Larynx**
- Larynx, See also Intubation**
laryngoscopy
cephalad displacement of larynx facilitates tracheal intubation [Salem, Heyman, Livschutz & Mahdi], A453
- Leukocytes, See under Blood**
- Lidocaine, See under Anesthetics, local**
- Lipid, See under Metabolism**

Lithotripsy, See under Surgery, urologic

Liver

blood flow

- atracurium induced neuromuscular block is prolonged in hepatic vascular occlusion [Tsai, Lee & Mok], A605
- during halothane or isoflurane anesthesia in guinea pigs [Gelman & Hursh], A301
- influence on lidocaine pharmacokinetics after epidural administration [Saada, Bonnet, Pirabe, Benoit & Rey], A251

cirrhosis

- pharmacokinetics of midazolam in anesthetized patients with [Chauvin, Haberer, Ferrier, Trouvin, Farinotti & Duvaldestin], A290

function

- halothane decreases albumin synthesis [Franks, Kruskal, Kirsch, Beachy & Harrison], A294

metabolism

- atracurium induced neuromuscular block is prolonged in hepatic vascular occlusion [Tsai, Lee & Mok], A605
- does nitrous oxide inactivation of methionine synthase decrease folic acid activity in man [Hawkins, Snider, Russell, Davis & Biebuyck], A292
- hepatic clearance of sufentanil in humans [Schedewie, Lee, Cowan, Gold, Bottorff, Peters, Heerd & Angel], A291

microsomes

- and purified cytochrome P-450, characterization of halothane oxidation by, using gas chromatographic-mass spectrometry assay [Waskell, Konopka, Gruenke & Koop], A314

oxygen consumption

- comparative hepatotoxicity of halothane, isoflurane, and enflurane using isolated perfused rat liver [Mathieu, Ford, Ray & Taylor], A302
- effects of hypocapnia and hypercapnia on liver surface PO₂ in dog [Okazaki, Okutsu, Numata & Fukunaga], A88
- effects of thiopental and other nonvolatile agents on, in isolated hepatocytes [Becker, Holland, Miletich & Albrecht], A321
- during halothane or isoflurane anesthesia in guinea pigs [Gelman & Hursh], A301

toxicity

- comparative, of halothane, isoflurane, and enflurane, using isolated perfused rat liver [Mathieu, Ford, Ray & Taylor], A302
- of halothane exposure, hypoxia, and phenobarbital induction in monolayers of rat hepatocytes [Schieble, Costa, Heffel & Trudell], A316
- oxygen supply during halothane or isoflurane anesthesia in guinea pigs [Gelman & Hursh], A301

transplantation

- autotransfusion during [Kang, Virji, Lewis, Aggarwal, Freeman & Fortunato], A83
- in children, intraoperative changes in coagulation during [Kang, Borland, Picone & Martin], A525
- impact on anesthesia personnel and services of programs for [Spiess, Narbone, McCarthy, Rettke & Ivankovich], A568
- mechanism of myocardial dysfunction during, role of isolated right ventricular failure in [Ellis, Lichtor, Chung, Polk, Emond, Broelsch, Thistlethwaite, Feinstein & Roizen], A82
- prognostic significance of blood glucose levels during [Mallett, Kang, Freeman, Aggarwal, Gasior & Fortunato], A313

Local anesthetics, See Anesthetics, local

Lorazepam, See under Hypnotics, benzodiazepines

Lumbar anesthesia, See under Anesthetic techniques, peridural

Lung, See also Airway; Ventilation

asthma

- chronic, severe, subanesthetic concentration of halothane and isoflurane in [Morinet, Benhamou, Herve & Denjean], A543

- in dogs, histamine release from lung mast cells in, vs. nonasthmatic dogs [Hirshman, Austin & Kettlekamp], A544

blood flow

- abnormalities in early stage of acute respiratory failure [Mion, Berlioz, Rouby, Bodin, Rossignon & Viars], A113
- absence of hematogenous mediated pulmonary injury with smoke inhalation in sheep [Prien, Linares, Traber, Herndon & Traber], A111
- alveolar gas mixing dependence on [Brampton, Mackenzie, Moorman & Watson], A80
- in conscious dogs, autonomic nervous system control of, disturbance of, by pentobarbital administration [Goll, Nyhan, Clougherty, Chen & Murray], A547
- effects of 70% nitrous oxide on, in dogs [Hasinoff, Papdimitropoulos & Prewitt], A103
- interactions between pulmonary capillary pressure, platelet microaggregates, and arachidonic acid derivatives in acute lung injury [Cope, Taylor, Longenecker, Fontenelle & Miller], A652
- microhemodynamic changes in pulmonary microcirculation during hypoxic pulmonary vasoconstriction [Goetz, Conzen, Berger, Hobbhahn & Brendel], A309
- vasodilator therapy in vasoconstrictor model of pulmonary hypertension in sheep [Prielipp, Pearl & Rosenthal], A104

capacity

closing

- in anesthetized children [Jonmarker, Larsson & Werner], A488

functional residual

- abnormalities in patients with persistent pulmonary hypertension of the newborn [Shutack, Fox, Shaffer & Moomjian], A487
- in anesthetized children [Jonmarker, Larsson & Werner], A488
- automated sulfur hexafluoride washout measurement system for any mode of mechanical ventilation as well as spontaneous respiration [East, Bloem, Van Ark, Peng & Pace], A206

vital

- correlation between integrated evoked EMG and, following atracurium administration [Sharpe, Lam, Nicholas, Chung, Merchant, Alyafi & Beauchamp], A608

damage

- absence of hematogenous mediated pulmonary injury with smoke inhalation in sheep [Prien, Linares, Traber, Herndon & Traber], A111
- effects of cyclooxygenase inhibition with indomethacin on surfactant-deficient lung injury [Fung, Burger & Bryan], A112
- endotoxin-induced, effects of beta-2 receptor agonist on [Sjogurdsson, Mousawi & Christenson], A151
- proteolytic enzyme induced, role of leukocytes in [Toung, Sendak, Rosenfeld, Bulkley & Traystman], A646

edema, See under Complications

function

- abnormalities in patients with persistent pulmonary hypertension of the newborn [Shutack, Fox, Shaffer & Moomjian], A487
 - comparison of anesthetic effects on [Watkins & Martin], A296
 - correlation between integrated evoked EMG and, following atracurium administration [Sharpe, Lam, Nicholas, Chung, Merchant, Alyafi & Beauchamp], A608
 - in supine and lateral decubitus positions in anesthetized children [Larsson, Jonmarker, Lindahl & Werner], A499
 - influence of preoperative chest x-rays on perioperative management of cancer patients [Weibman, Shah & Bedford], A332
- perfusion, See Lung, blood flow**
- pleural effusions can be caused by superior vena caval hypertension [Allen, Drake, Gabel & Laine], A138

postpneumonectomy growth of, minimizing intraoperative hypoxemia does not affect [Karl & Rannels], A319

pulmonary artery

endothelium, characterization of release and transfer of endothelium-derived relaxing factor from [Johns, Izzo & Peach], A323

tone of, novel approach to study of [Murray, Macarak, Marshall & Marshall], A327

respiratory distress syndrome

adult, functional activation of polymorphonuclear leukocytes in patients with [Rossignon, Khayat, Royer, Rouby, Jacquillat & Viars], A647

comparison of high frequency jet ventilation with conventional ventilation for bronchopleural fistula in acute respiratory failure [Bishop, Benson, Sato & Pierson], A116

postoperative, early, evaluation of efficacy of PEEP in [Ben Ammar, Rouby, Bodin, Rossignon, Rotcayg & Viars], A651

pulmonary circulation abnormalities in early stage of [Mion, Berlioz, Rouby, Bodin, Rossignon & Viars], A113

respiratory resistance

abnormalities in patients with persistent pulmonary hypertension of the newborn [Shutack, Fox, Shaffer & Moonjian], A487

surfactant

effects of cyclooxygenase inhibition with indomethacin on surfactant-deficient lung injury [Fung, Burger & Bryan], A112

vascular resistance

abnormalities in patients with persistent pulmonary hypertension of the newborn [Shutack, Fox, Shaffer & Moonjian], A487

contraction of isolated pulmonary artery smooth muscle cells in culture [Murray, Macarak, Marshall & Marshall], A327

development of regional myocardial ischemia during acute pulmonary hypertension when right coronary artery stenosis is present [Priebe], A6

effect of pentobarbital on response to hypoxia in isolated sheep lungs [Martin & Wetzel], A326

effects of 70% nitrous oxide on, in dogs [Hasinoff, Papdimitropoulos & Prewitt], A103

effects of α_1 -adrenergic bolus administration in anesthetized patients [Schwinn, Clements, Hawkins, Kates & Reves], A72

effects of intrathecal perioperative morphine on [Chester, Schubert, Brandon, Pudimat & Pray], A267

effects of prostaglandin E_1 , isoproterenol, prostacyclin, and nifedipine in porcine model of pulmonary hypertension [Prielipp, Pearl, McLean & Rosenthal], A154

evidence that endogenous leucotrienes do not play major role for hypoxic pulmonary vasoconstriction in pigs [Conzen, Zenker, Vollmar, Hobbhahn, Goetz, Martin & Brendel], A310

inhibition of hypoxic constriction: synthesis of vasodilator or consumption of substrate [Marshall, Ishibe & Marshall], A325

interactions between pulmonary capillary pressure, platelet microaggregates, and arachidonic acid derivatives in acute lung injury [Cope, Taylor, Longenecker, Fontenelle & Miller], A652

longitudinal distribution of, during unilateral hypoxia [Siegel, Pearl, Shafer & Ream], A554

low-dose almitrine besmesylate enhances hypoxic pulmonary vasoconstriction during canine one-lung hypoxia [Chen, Miller, Clarke, Clergue, Marshall & Marshall], A548

microhemodynamic changes in pulmonary microcirculation during hypoxic pulmonary vasoconstriction [Goetz, Conzen, Berger, Hobbhahn & Brendel], A309

propylene glycol produces pulmonary hypertension in sheep [Pearl & Siegel], A324

role of leukotrienes in hypoxic pulmonary vasoconstriction in sheep [Pearl & Prielipp], A549

systemic, is CVP the appropriate downstream pressure in calculations of [Beattie, Stevenson, Maruschak, Rosenfeld & Watkins], A87

tions of [Beattie, Stevenson, Maruschak, Rosenfeld & Watkins], A87

tosyl arginyl methyl ester (TAME) blocks thromboxane A_2 mediated pulmonary vasoconstriction [Crowley, Gurtner & McShane], A109

during total knee replacement surgery with total condylar prosthesis [Tartiere, Gerard, Samii & Quesnel], A106

transhiatal esophagus resection and [Yakoubian, Bougeois, Marty, Marmuse & Desmonts], A119

vasodilator therapy in vasoconstrictor model of pulmonary hypertension in sheep [Prielipp, Pearl & Rosenthal], A104

volume

low, gas mixing during apnea and continuous flow ventilation at [Mackenzie, Moorman, Smith, Gundry, Coughlin & Hanks], A540

Lymph, See under Blood

M

MAC, See under Potency, anesthetic

Magnesium, See under Ions

Magnetic resonance imaging, See Measurement techniques, nuclear magnetic resonance

Malignant pyrexia, See under Hyperthermia

Manpower

anesthesiologists

impact of liver transplant programs on [Spiess, Narbone, McCarthy, Rettke & Ivankovich], A568

presence of departmental substance abuse policy improves outcome of impaired personnel [Bell, Leighton, Mora & Seltzer], A566

nurse anesthetists

impact of liver transplant programs on [Spiess, Narbone, McCarthy, Rettke & Ivankovich], A568

residents

impact of liver transplant programs on [Spiess, Narbone, McCarthy, Rettke & Ivankovich], A568

Mass spectroscopy, See under Measurement techniques

Measurement techniques, See also Monitoring

blood pressure

adequacy of automated blood pressure cuffs with epinephrine test doses in beta blocked patients [Johnson, Hom & Mulroy], A187

from finger, noninvasive, continuous, effect of peripheral vascular disease on accuracy of [East, Pace, Sorenson, East & Westenskow], A186

on-line identification and analysis of, by use of rule-based knowledge representation [Mintz, Ford, Kaczorowski & Coyle], A203

systolic, Doppler vs. pulse oximeter for [Korbon, Wills, D'Lauro & Lawson], A188

calorimetry

indirect, metabolic rate in anesthetized infants and children measured by [Lindahl], A524

cardiac output

comparison of simultaneous intraoperative measurements by thermodilution, esophageal Doppler, and electrical impedance in anesthetized patients [Siegel, Shafer, Martinez, Ream & Scott], A181

evaluation of isoflurane and myocardial ischemia with [LaMantia, Acampora, Prokop, Ezekowitz, Slavik & Barash], A586

impedance cardiography vs. thermodilution in cardiac transplant patients [Mintz, Dirkes, Melvin, Silver & Denson], A213

intraoperative determination from transmitral and pulmonary

- blood flow measurements using transesophageal pulsed Doppler echocardiography [Roewer, Bednarz, Dziadzka & Schulte am Esch], A639
- measurement with Doppler ultrasound targeted by two-dimensional transesophageal echocardiography [Ellis, Runyon-Hass, Lichtor, Keamy & Roizen], A638
- noninvasive [Wong, Tremper, O'Connor, Wilbur, Wakabayashi & Zaccari], A643
- on-line identification and analysis of, by use of rule-based knowledge representation [Mintz, Ford, Kaczorowski & Coyle], A203
- by pulsed Doppler aortic implantable microprobes after cardiac surgery [Fratucci, Laborde, Dupuy, Grec & Payen], A637
- in third trimester preeclamptic vs. normal pregnant patients [Ellis, Reese & Blass], A634
- three-breath determination of, in infants and children [Morton], A486
- chromatography**
- mass spectrometry and, characterization of halothane oxidation by liver microsomes and purified cytochrome P-450 using [Waskell, Konopka, Gruenke & Koop], A314
- for circulating red cell volume [Hansen, Goetz, Conzen, Hobbhahn & Peter], A207
- computers**
- on-line identification and analysis of hemodynamic trends and patterns by use of rule-based knowledge representation [Mintz, Ford, Kaczorowski & Coyle], A203
- quantitative comparison of thenar electromyographic and force displacement signals during automated vecuronium infusion [Ebert, Carroll & Bradley Jr.], A343
- Doppler ultrasound**
- aortic implantable microprobes, monitoring of cardiac output by, after cardiac surgery [Fratucci, Laborde, Dupuy, Grec & Payen], A637
- comparison of simultaneous intraoperative measurements of cardiac output by thermodilution, electrical impedance and, in anesthetized patients [Siegel, Shafer, Martinez, Ream & Scott], A181
- comparison with thermodilution cardiac output [Wong, Tremper, O'Connor, Wilbur, Wakabayashi & Zaccari], A643
- esophageal, implications of interaction in sheep between mean arterial pressure and cross-sectional area of descending aorta for [List, Gravenstein, Banner, Caton & Davis], A178
- intraoperative cardiac output determination from transmitral and pulmonary blood flow measurements using [Roewer, Bednarz, Dziadzka & Schulte am Esch], A639
- preoperative, of cardiac index, prognostic value of [Belani & Estrin], A122
- pulse oximeter vs., systolic blood pressure measurement with [Korbon, Wills, D'Lauro & Lawson], A188
- targeted by two-dimensional transesophageal echocardiography, cardiac output measurement with [Ellis, Runyon-Hass, Lichtor, Keamy & Roizen], A638
- echocardiography**
- contrast, for intraoperative quantitation of myocardial perfusion [Segil, Dick, Feinstein & Silverman], A100
- myocardial contractility during halothane and isoflurane anesthesia assessed with [Mazzei, Dan, Scheller, Dittrich & Sahn], A590
- transesophageal**
- frequency with which ST segment trends predict intraoperative myocardial ischemia [Ellis, Roizen, Aronson, Feinstein & Briller], A2
- two-dimensional, cardiac output measurement by Doppler ultrasound targeted by [Ellis, Runyon-Hass, Lichtor, Keamy & Roizen], A638
- two-dimensional, comparison between radial arterial and central aortic pressure-volume relations with [Hillel, Thys, Goldman & Kaplan], A107
- two-dimensional, ejection fraction area on, correlation with gated radionuclide angiography of [Bruere, Coriat, Philip, Montejo, Fauchet, Cheour & Viars], A177
- two-dimensional, evaluation of isoflurane and myocardial ischemia with [LaMantia, Acampora, Prokop, Ezekowitz, Slavik & Barash], A586
- two-dimensional, intraoperative cardiac output determination from transmitral and pulmonary blood flow measurements using [Roewer, Bednarz, Dziadzka & Schulte am Esch], A639
- two-dimensional, mechanism of myocardial dysfunction during liver transplantation on, role of isolated right ventricular failure in [Ellis, Lichtor, Chung, Polk, Emond, Broelsch, Thistlethwaite, Feinstein & Roizen], A82
- two-dimensional, segmental wall motion in coronary artery disease patients evaluated by, after lumbar epidural anesthesia [Saada, Duval, Bonnet, Rey & Castillon], A270
- two-dimensional, usefulness of end systolic quotient and of fractional shortening for assessment of contractility changes under different loading conditions [Heinrich, Fontaine, Wilder-Smith, Winter & Ahnefeld], A209
- ejection fraction**
- changes in, peak systolic pressure-end systolic volume ratio correlates with, in canine model of septic shock [Hoffman, Natanson, Danner, MacVittie, Walker & Parrillo], A127
- effects of BW A938 U on [Konstadt, Thys, Reich, Keusch & Kaplan], A369
- evaluation of isoflurane and myocardial ischemia with [LaMantia, Acampora, Prokop, Ezekowitz, Slavik & Barash], A586
- improvement in, by lumbar epidural anesthesia, in patients with poor left ventricular function [Coriat, Benammar, Baron, Van Der Linden, Montejo, Bertrand, Daas & Viars], A259
- transesophageal 2D echocardiography correlated with gated radionuclide angiography [Bruere, Coriat, Philip, Montejo, Fauchet, Cheour & Viars], A177
- electrocardiography**
- frequency with which ST segment trends predict intraoperative myocardial ischemia [Ellis, Roizen, Aronson, Feinstein & Briller], A2
- preoperative silent myocardial ischemia in patients with unstable angina [Metzler, Gombotz, List & Rehak], A3
- electrodes**
- carbon dioxide**
- evaluation of new intra-arterial blood gas system in dogs and humans [Shapiro, Cane, Chomka & Gehrich], A640
- oxygen**
- evaluation of new intra-arterial blood gas system in dogs and humans [Shapiro, Cane, Chomka & Gehrich], A640
- electroencephalogram**
- processed, seizure detection using [Benthuyssen, Fung, Smith & Magliozzi], A214
- electromyography**
- automatic computer control of neuromuscular blockade [Quill, Reves, Jacobs & Glass], A641
- evoked, integrated, respiratory function and, following atracurium administration [Sharpe, Lam, Nicholas, Chung, Merchant, Alyafi & Beauchamp], A608
- thenar, quantitative comparison with force displacement signals during automated vecuronium infusion [Ebert, Carroll & Bradley Jr.], A343
- evoked potentials**
- following global cerebral ischemia, effects of superoxide dismutase on [Snelling, Ackerman, Dean, North & Traystman], A153

- increased amplitude of, with prior cerebellar stimulation [Erickson, McCaffrey & Ohira], A404
- steady state, 40 Hz, during isoflurane-N₂O anesthesia [Hogan], A402
- Fick principle**
- three-breath determination of cardiac output in infants and children [Morton], A486
- mass spectroscopy**
- clinical utility of respiratory gas monitoring by [Guffin, Shamsi, Marlar, Mikula & Kaplan], A174
- emission spectrometry and, venous air embolism detection with, during normobaric and hyperbaric conditions [Russell, Snider, Richard & Loomis], A436
- gas chromatography and, characterization of halothane oxidation by liver microsomes and purified cytochrome P-450 using [Waskell, Konopka, Gruenke & Koop], A314
- high frequency response to halothane [Scamman], A176
- neuromuscular blockade**
- during automated vecuronium infusion, quantitative comparison of thenar electromyographic and force displacement signals during [Ebert, Carroll & Bradley Jr.], A343
- automatic computer control of [Quill, Reves, Jacobs & Glass], A641
- nuclear magnetic resonance**
- fluorine-19**
- isoflurane elimination from rabbit paralumbar muscle studied with [Wyrwicz, Conboy & Eisele], A407
- phosphorus-31**
- in vivo, noninvasive detection of malignant hyperthermia susceptibility by [Olgin, Argov, Rosenberg & Chance], A166
- rectal methohexital in children undergoing [Griswold & Liu], A494
- outcome analysis**
- are post coronary artery bypass patients still at risk [Khambatta, Sonntag, Larsen, Stephan, Stone & Kettler], A598
- after cardiac surgery, choice of anesthetic agent and [Tuman, McCarthy & Ivankovich], A597
- comparison of open and closed anesthesia circuits, patient safety and [Ernst, MacKrell, Pearson, Cutter & Wagenknecht], A474
- effect of two interventions on rate of anesthesia complications [Cooper, Cullen, Nemeskal, Gevirtz & Hoaglin], A466
- is ASA physical status classification adequate in predicting mortality in blunt trauma [Koch, McLellan, Wortzman, Bertram & Szalai], A482
- patient care evaluation system, patients' perception of anesthetic care and [Perlstein & Barash], A475
- perioperative myocardial ischemia as predictor of myocardial infarction and [Cheng, Chung, Burns, Houston & David], A594
- predictors of left ventricular function and mortality in post cardiopulmonary bypass period [Ossey, Hawkins, Reves & McIntyre], A596
- pulse oximetry and incidence of hypoxemia during recovery from anesthesia [Bushman, Morris, Warren, Philip & Raemer], A481
- risk of surgery and anesthesia, 1979 and 1983 [Lichtor, Roizen & Lane], A465
- survey of 3,244 consecutive admissions to post-anesthesia recovery room at university teaching hospital [Gewolb, Hines & Barash], A471
- pain**
- postoperative, in infants [Attia, Amiel-Tison, Mayer, Shnider & Barrier], A532
- pulse monitor**
- Doppler vs., systolic blood pressure measurement with [Korbon, Wills, D'Lauro & Lawson], A188
- on-line identification and analysis of trends and patterns by use of rule-based knowledge representation [Mintz, Ford, Kaczorowski & Coyle], A203
- radioactive tracers**
- dipyridamole thallium imaging in prediction of cardiac risk in patients scheduled for abdominal aortic surgery [Bertrand, Godet, Baron, Coriat, Mundler, Fauchet & Viars], A117
- peak systolic pressure-end systolic volume ratio correlates with changes in ejection fraction in canine model of septic shock [Hoffman, Natanson, Danner, MacVittie, Walker & Parrillo], A127
- technetium pyrophosphate, prediction of myocardial infarction by [Cheng, Chung, Burns, Houston & David], A594
- transesophageal 2D echocardiography ejection fraction area on, correlation with [Bruere, Coriat, Philip, Montejo, Fauchet, Cheour & Viars], A177
- thermodilution cardiac output**
- comparison of simultaneous intraoperative measurements of cardiac output by esophageal Doppler, electrical impedance and, in anesthetized patients [Siegel, Shafer, Martinez, Ream & Scott], A181
- comparison of two different methods with [Wong, Tremper, O'Connor, Wilbur, Wakabayashi & Zaccari], A643
- impedance cardiography vs., cardiac outputs determined by, in cardiac transplant patients [Mintz, Dirkes, Melvin, Silver & Denson], A213
- thrombelastography**
- and changes in blood coagulation following cardiopulmonary bypass [Newland, Chapin, Hurlbert, Kennedy & Newland], A199
- for prediction and assessment of management of excessive bleeding after open heart surgery [Logas, Spiess, Hughes, McCarthy, Jaimovich & Ivankovich], A142
- tomography**
- computerized cranial, rectal methohexital in children undergoing [Griswold & Liu], A494
- perioperative myocardial ischemia as predictor of myocardial infarction and [Cheng, Chung, Burns, Houston & David], A594
- positron emission, myocardial beta-adrenergic density is decreased by halothane in dogs as assessed by [Maze, Marty, Seto, Crouzel, Valloise, Crouzel, Lancon & Syrota], A55
- Mechanical ventilation, See under Ventilation**
- Medical students, See under Education**
- Medicolegal**
- effect of detailed anesthesia consent form on patient recall and anxiety [Leighton, Bauman, Seltzer & Menduke], A567
- Membrane oxygenator, See under Surgery, cardiovascular, oxygenator**
- Memory**
- neurocognitive profile of midazolam induced amnesia [Galus, Pohorecki, French, Pandit & Domino], A418
- patient recall, effect of detailed anesthesia consent form on [Leighton, Bauman, Seltzer & Menduke], A567
- postoperative, spontaneous and purposeful movement as predictor of, during fentanyl/nitrous oxide/diazepam anesthesia [Stolzy, Couture & Edmonds Jr.], A376
- postoperative recognition test after balanced anesthesia [Stolzy, Couture & Edmonds Jr.], A377
- time course of lorazepam induced auditory amnesia, relationship of, to cognitive evoked potentials in humans [Samra, Bradshaw, Pandit, Moore & Papanicolaou], A420
- Meperidine, See under Analgesics, narcotic**
- Mephentermine, See under Sympathetic nervous system, sympathomimetic agents**
- Mepivacaine, See under Anesthetics, local**

Metabolism, See also Biotransformation (drug); individual organs

adenosine monophosphate

sympathetic blockade vs., for prevention and treatment of postherpetic neuralgia [Brookshire, Cook & Sklar], A247

adenosine triphosphate

changes in regional myocardial blood flow and oxygen tension during induced hypotension in subhuman primates [Fukunaga, Ito, Iijim, Kubota & Miyamoto], A8

in anesthetized infants and children, measurement of, by indirect calorimetry [Lindahl], A524

diabetes

difficult laryngoscopy in [Hogan, Rusy & Springman], A473

increased intraoperative cardiovascular morbidity with autonomic neuropathy [Burgos, Asiddao, Ebert, Pattison & Kampine], A66

myocardial myosin isoenzyme shifts and effects of halothane on cardiac contractility in non-insulin treated spontaneously diabetic rats [Baum, Miletich, Clarke & Pelligrino], A95

fatty acids

phosphoinositide analysis in rats with altered volatile anesthetic sensitivity [Haycock & Evers], A378

glucose

prognostic significance of levels during liver transplantation [Mallett, Kang, Freeman, Aggarwal, Gasior & Fortunato], A313

uptake, potassium uptake and, dissociation of responses to hyperinsulinemia in critically ill patients [Shangraw, Miyoshi, Jahoor, Stuart, Neff & Wolfe], A129

hyperglycemia

neuronal ischemic changes after middle cerebral artery occlusion decreased by, in cat [Zasslow, Pearl, Shuer, Lieberman, Steinberg & Larson Jr.], A581

hypoglycemia

effect on cerebral metabolism and cerebrovascular responsivity of [Sieber, Derrer, Saudek & Traystman], A572

insulin

dissociation of potassium and glucose uptake responses to hyperinsulinemia in critically ill patients [Shangraw, Miyoshi, Jahoor, Stuart, Neff & Wolfe], A129

lipid

of secondary alcohol stereoisomers [Firestone, Alifimoff & Miller], A380

total parenteral nutrition with, enhancement of bacterial elimination and attenuation of hemodynamic derangements of sepsis from [Doty, Dehring, Kraft, Traber & Herndon], A150

metabolites

atracurium, pharmacokinetics of, in normal and renal failure patients [van den Brom, Wierda & Agoston], A606

electrophilic, formed from atracurium, quantitation of, in vivo [Pandya, Nigrovic, Gallup & Fry], A603

microsomes, See under Biotransformation (drug)

pentobarbital selectively inhibits phosphatidylinositol hydrolysis in cultured vascular endothelial cells [Robinson-White, Robinson & Muldoon], A315

respiratory quotient

predicted vs. measured energy requirement [Fallon, Tonnesen, Maslovitz & Hernandez], A158

ribose

effect of administration on contractile recovery following brief periods of ischemia [Sami & Bittar], A74

uridine

CSF, reduced, in head injury patients [Rosner, Mueller, Ghia, Hunt & Coley], A429

Metabolites, See under Metabolism

Methadone, See under Analgesics, narcotic

Methemoglobinemia, See under Blood

Methionine synthase, See under Enzymes

Methohexital, See under Anesthetics, intravenous; Hypnotics, barbiturates

Methoxyflurane, See under Anesthetics, volatile

Metoclopramide, See under Vomiting, antiemetics

Metocurine, See under Neuromuscular relaxants

Microcirculation

brain

different response of bolus or continuous infusion of sufentanil on [Lu, Prinscott, Frost, Gibson & Goldiner], A89

during isoflurane and enflurane [Goetz, Conzen, Schmidt, Hobbahn, Peter & Brendel], A7

lung

microhemodynamic changes in, during hypoxic pulmonary vasoconstriction [Goetz, Conzen, Berger, Hobbahn & Brendel], A309

Microsomes, See under Biotransformation (drug)

Midazolam, See under Anesthetics, intravenous; Hypnotics, benzodiazepines

Milrinone, See under Pharmacology

Minimum alveolar concentration, See Potency, anesthetic, MAC

Monitoring, See also Equipment; Measurement techniques

angiocardigraphy

radionuclide, assessment of wall motion during endotracheal intubation by [Sell, Croughwell, Camporesi, Jones & Reves], A27

carbon dioxide

automated analysis of capnograms [Duranteau, Deriaz, Schurandau, Rader & Payen], A196

comparison of two noninvasive estimates in critically ill neonates [McEvedy, McLeod, Munini, Kirpalani & Lerman], A485

end-tidal measurements in infants after cardiac surgery [Wessel, Boyd III & Hickey], A175

electrocardiography

changes following neurosurgery [Morales Jr., Shapiro, Donegan, Bird, Buycke, Rupp, Wickersham & Rampil], A65

phrenic nerve stimulation triggered by, transient analysis of respiration using [Peters, Kindred & Robotham], A81

electroencephalography

for monitoring anesthetic depth for alfentanil with N₂O [Stanski, Vuyk, Ausens, Arts, Kramer & Spierdijk], A401

pharmacological quantitation of midazolam's CNS drug effect in hypnotic doses [Buhner, Maitre, Ebling & Stanski], A658

processed, seizure detection using [Benthuyssen, Fung, Smith & Magliozzi], A214

relationship of thiopental's steady state plasma concentration to [Buhner, Maitre, Ebling & Stanski], A399

oxygen

accuracy of pulse oximetry in cyanotic congenital heart disease [Lazzell & Jopling], A169

comparison of two mixed-venous saturation catheters in critically ill patients [Reinhart, Moser, Rudolph, Gramm, Goecke & Eyrich], A182

correction for body temperature during hypothermia [Moon & Camporesi], A20

desaturation during cemented hip replacement [Rosenberg, Bernstein, Bernstein & Ramanathan], A551

effect of premedication in cardiac patient prior to transport to operating room [Hensley Jr., Dodson, Larach, Martin & High], A4

effect of sevoflurane on P₅₀ and PO₂ measurements [Kambam, Holaday, Horton & Parris], A198

effects of methemoglobinemia on [Barker, Tremper, Hyatt & Zaccari], A171

and incidence of hypoxemia during recovery from anesthesia [Buschman, Morris, Warren, Philip & Raemer], A481

- local anesthesia and [Kitz, Aukburg & Lecky], A264
and marked hypoxemia after gastropasty due to disorders of breathing in REM sleep [Knill, Moote, Rose & Skinner], A552
on-line identification and analysis of trends and patterns by use of rule-based knowledge representation [Mintz, Ford, Kaczorowski & Coyle], A203
prevention of hypoxemia during postoperative transport in children [Patel, Norden & Hannallah], A529
pulse oximetry may not detect endobronchial intubation [Barker, Tremper, Hyatt, Zaccari & Thaurer], A170
real-time continuous estimation of gas exchange by dual oximetry [Rasanen, Downs, DeHaven & Garner], A173
time course of hemoglobin desaturation during immediate postanesthetic period in children [Motoyama, Borland & Mutich], A508
- pulse oximetry**
accuracy in cyanotic congenital heart disease [Lazzell & Jopling], A169
and detection of endobronchial intubation [Barker, Tremper, Hyatt, Zaccari & Thaurer], A170
effects of methemoglobinemia on [Barker, Tremper, Hyatt & Zaccari], A171
and incidence of hypoxemia during recovery from anesthesia [Buschman, Morris, Warren, Philip & Raemer], A481
- somatosensory evoked potentials**
cerebral blood flow and, relationship between, during graded incomplete ischemia in goats under general anesthesia [Kochs & Schulte am Esch], A403
phenylephrine vs. epinephrine and, during and following cardiopulmonary resuscitation in dogs [Schleien, Koehler, Berkowitz, Dean, Gervais, Michael, Rogers & Traystman], A650
posterior tibial nerve, effects of high dose sufentanil or alfentanil anesthesia on [Kalkman, van Rheineck Leyssius, Hesselink & Bovill], A386
- temperature**
esophageal temperature distribution implications for [Kaufman], A205
use of auditory alarms in operating room [Kestin, Miller & Lockhart], A191
- Morphine, See under Analgesics, narcotic; Anesthetics, intravenous**
Muscle, skeletal, See also Neuromuscular entries
blood flow
during isoflurane and enflurane [Goetz, Conzen, Schmidt, Hobbhahn, Peter & Brendel], A7
contractility
diaphragmatic, and recovery after atracurium [Goldman, Road & Grassino], A329
cultured, from patients susceptible to malignant hyperthermia, patch clamp whole-cell currents in [Wieland, Fletcher & Rosenberg], A318
diaphragm
activity of, after upper abdominal surgery, effects of thoracic extradural block on [Pansard, Philip, Bahini, Brichant, Delima, Mankikian & Viars], A537
contractility and recovery after atracurium [Goldman, Road & Grassino], A329
human, dose-response curves for vecuronium on [Chauvin, Lebrault & Duvaldestin], A348
neuromuscular blocking effect of atracurium on [Chauvin, Lebrault, Gauneau & Duvaldestin], A349
paralumbur, rabbit, isoflurane elimination from, ¹⁹F NMR spectroscopy study of [Wyrwicz, Conboy & Eisele], A407
rigidity
alfentanil-induced, in rat, localization of brain sites that may play role in [Weinger, Cline, Blasco, Smith & Koob], A384
decrease in, with time, despite constant levels of neuromuscular blockade [Ensalada, Muravchick, Rosato, DeFeo & Weber], A431
role in pattern of breathing after abdominal surgery [Raimbault, Dureuil, Veber & Desmonts], A536
- sarcoplasmic reticulum**
halothane directly inhibits function of, in intact myocardium [Komai & Rusy], A54
isolated membranes, effects on Ca⁺⁺ transport and CA⁺⁺ channel release functions in, of halothane vs. enflurane vs. isoflurane [Nelson & Sweo], A300
isolated rabbit white skeletal muscle, effects of volatile anesthetics on spontaneous calcium release from [Peterson Jr., Baroody & Blanck], A317
in skinned myocardial fibers of newborn and adult rabbit, effects of halothane on function of [Krane & Su], A93
vocal cord vs. thenar neuromuscular blockade with vecuronium in man [Gilly, Redl, Werba, Streinzer, Draxler & Spiss], A614
- Myocardium, See under Heart**
- N**
- Nalbuphine, See under Analgesics, narcotic**
Naloxone, See under Antagonists, narcotic
Narcotic analgesics, See Analgesics, narcotic
Narcotic antagonists, See Antagonists, narcotic
Nausea, See under Vomiting
Needles, See under Equipment
Neostigmine, See under Antagonists, neuromuscular relaxants
- Nerve**
block, See Anesthetic techniques, regional
conduction
ketamine effects in peripheral nervous system [Tabatabai, deGroat, Booth & Kirmli], A427
damage, See under Complications; Position
sciatic
rat, intact, effects of pH-adjusted lidocaine solutions on compound action potential in [Okamura, Reisner & Kalichman], A281
stimulator, See under Equipment; Neuromuscular (transmission, stimulator, nerve
- tibial**
common peroneal and, combined interosseous blocks, for foot surgery [Shulman, Peng, Nyunt, Kepes & Blancato], A288
posterior, somatosensory evoked potentials, effects of high dose sufentanil or alfentanil anesthesia on [Kalkman, van Rheineck Leyssius, Hesselink & Bovill], A386
- Neurologic complications, See under Complications**
Neuromuscular blockade, See under Measurement techniques
Neuromuscular relaxants, See also Antagonists, neuromuscular relaxants
- atracurium**
activity of, in halothane anesthetized horses, trichlorfon does not alter [Hildebrand, Holland & Hill], A350
administration in divided doses does not accelerate onset of action [Brady, Mirakhur, Clarke & Gibson], A347
assessment of evoked acceleration response during recovery from [Werner, Jensen, Kirkegaard Nielsen & Viby-Mogensen], A344
cerebrospinal fluid laudanosine kinetics in children [Harris, Stirt, Broadus & Cook], A506
correlation between integrated evoked EMG and respiratory function following administration of [Sharpe, Lam, Nicholas, Chung, Merchant, Alyafi & Beauchamp], A608
diaphragmatic contractility and recovery after [Goldman, Road & Grassino], A329

- effect on human diaphragm [Chauvin, Lebrault, Gauneau & Duvaldestin], A349
- in elderly, pharmacokinetics and pharmacodynamics of [deBros, Okutani, Lai, Lawrence & Basta], A604
- electrophilic metabolites formed from, quantitation of, in vivo [Pandya, Nigrovic, Gallup & Fry], A603
- and inhibition of plasma cholinesterase and degradation in vitro [Kupferberg, James & Seals], A602
- and metabolites, pharmacokinetics of, in normal and renal failure patients [van den Brom, Wierda & Agoston], A606
- neuromuscular block induced by, prolongation of, in hepatic vascular occlusion [Tsai, Lee & Mok], A605
- pharmacodynamics of, in obese [Weinstein, Matteo, Ornstein, Goldstoft & Thal], A346
- pharmacokinetics and pharmacodynamics of, phenytoin does not interfere with [deBros, Okutani, Lai, Lawrence & Basta], A607
- relationship between twitch depression and train-of-four fade [Durant, Nguyen & Katz], A333
- tetanic fade following administration of [Mirakhur, Gibson & Clarke], A334
- BW A938U**
- cumulative dose-response relationships of, during four anesthetic techniques [Katz, Fragen, Shanks, Dunn, McNulty & Williams], A361
- does not trigger malignant hyperthermia in susceptible swine [Kreul, Suftit, Brunson, Bellay & Will], A299
- dose response of, in children [Goudsouzian, Alifimoff, Liu, Embree, McNulty & Foster], A366
- effect of succinylcholine on subsequent neuromuscular blockade with [Forbes, Mehta, Murray, Choi, Sokoll, Gergis, Rudd, Krol, Abou-Donia & Cotten], A363
- effects of anesthesia and dosage on neuromuscular blockade with [Katz, Fragen, Shanks, Dunn, Rudd & Williams], A364
- hemodynamic effects of, in coronary artery bypass graft and valve replacement patients receiving oxygen sufentanil anesthesia [Stoops, Cunis, Kovach, McCammon, Stoelting & Warren], A368
- hemodynamic effects of [Konstadt, Thys, Reich, Keusch & Kaplan], A369
- isoflurane, halothane, and narcotic anesthetic dose-response for [Lynam, Caldwell & Miller], A362
- neuromuscular effects of, in anesthetized children [Sarnier, Brandom, Woelfel, Horn, Cook, Dong, Davis, Foster & McNulty], A365
- pancuronium vs., cardiovascular and neuromuscular effects of [Murray, Mehta, Forbes, Choi, Sokoll, Gergis, Krol & Abou-Donia], A367
- BW B1090U**
- by bolus injections, dose-duration relationship of [Lee, Cheng, Yang, Cantley, Harris, Weakly & Whitehead], A353
- cardiovascular effects during nitrous oxide-oxygen-narcotic anesthesia [Forbes, Choi, Mehta, Murray, Sokoll, Gergis, Douglas & Abou-Donia], A360
- infusion requirements in adults during isoflurane or narcotic anesthesia [Powers, Weber, Brandom, Byers, Simpson, Sarnier, Woelfel, Cook, McNulty & Foster], A359
- in vitro metabolism of [Cook, Stiller, Chakravorti, Welch & Brandom], A610
- neuromuscular effects in patients under narcotic-N₂O anesthesia [Choi, Mehta, Murray, Forbes, Sokoll, Gergis, Krol, Abou-Donia & Cotten], A355
- neuromuscular effects in patients under narcotic-N₂O anesthesia [Lee, Cheng, Yang, Cantley, Harris, Weakly & Whitehead], A354
- pharmacokinetics and pharmacodynamics of, in healthy surgical patients receiving N₂O/O₂ isoflurane anesthesia [deBros, Basta, Ali, Wargin & Welch], A609
- relative potency during isoflurane or thiopental-fentanyl anesthesia [Weber, Brandom, Powers, Sarnier, Woelfel, Cook, Foster & Weakly], A356
- sixty-second tracheal intubation with, after fentanyl-thiopental induction [Savarese, Ali, Basta, Embree & Risner], A351
- succinylcholine vs., for facilitation of endotracheal intubation in outpatient surgical unit [McPeck, Nozik, Walzer, Embree & Schwartz], A352
- dantrolene**
- and antagonism of synergistic hemolysis of human red blood cells by halothane and phospholipase A₂ [Fletcher, Kistler, Rosenberg, Michaux & Tripolitis], A298
- metocurine**
- pharmacokinetics and pharmacodynamics of, in infants, children, and adults [Weinstein, Matteo, Ornstein, Goldstoft & Diaz], A615
- pancuronium**
- BW A938U vs., cardiovascular and neuromuscular effects of [Murray, Mehta, Forbes, Choi, Sokoll, Gergis, Krol & Abou-Donia], A367
- nitrous oxide increases neuromuscular blocking effect of [Kinjo, Nagashima, Duncalf, Goldiner & Folds], A372
- pharmacokinetics and cardiovascular effects of, in CABG patients [Wierda, Karliczek, van den Brom, Kersten-Kleef & Agoston], A613
- pipecuronium vs., pharmacokinetics and duration of action of [Caldwell, Castagnoli, Canfell, Fahey, Lynam, Fisher & Miller], A611
- tetanic fade following administration of [Mirakhur, Gibson & Clarke], A334
- vecuronium vs., cardiovascular effects of, in premature infants with hyaline membrane disease [Hamza, Macquin, Wood, Devictor & Huault], A515
- pipecuronium**
- dose-response evaluation of, in elderly population, under balanced anesthesia [Azad, Goldberg, Larjani, Ritter, Marr, Beach & Seltzer], A370
- pancuronium vs., pharmacokinetics and duration of action of [Caldwell, Castagnoli, Canfell, Fahey, Lynam, Fisher & Miller], A611
- pharmacokinetics and cardiovascular effects of, in CABG patients [Wierda, Karliczek, van den Brom, Kersten-Kleef & Agoston], A613
- pharmacokinetics and duration of action of, influence of renal failure on [Caldwell, Canfell, Castagnoli, Lynam, Fahey, Fisher & Miller], A612
- potency and duration of action not increased by preliminary administration of succinylcholine [Chae, Nguyen, Nagashima, Goldiner, Duncalf & Folds], A371
- succinylcholine**
- BW B1090U vs., for facilitation of endotracheal intubation in outpatient surgical unit [McPeck, Nozik, Walzer, Embree & Schwartz], A352
- dose-response curves for, single vs. cumulative techniques [Smith, Donati & Bevan], A358
- effect on recovery from vecuronium, comparing orbicularis oculi and adductor pollicis muscle [Joseph & Beatie], A342
- effect on subsequent neuromuscular blockade with BW A938U [Forbes, Mehta, Murray, Choi, Sokoll, Gergis, Rudd, Krol, Abou-Donia & Cotten], A363
- long term sterility of diluted or pre-drawn solutions of [Mayweather, Santos, Juneja & Stanek], A160
- preliminary administration of, does not increase potency and du-

- ration of action of pipecuronium [Chae, Nguyen, Nagashima, Goldiner, Duncalf & Foldes], A371
- d-tubocurarine**
- azathioprine fails to alter dose-response curve of [Glidden, Jeevendra Martyn & Tomera], A357
 - long term sterility of diluted or pre-drawn solutions of [Mayweather, Santos, Juneja & Stanek], A160
 - nitrous oxide increases neuromuscular blocking effect of [Kinjo, Nagashima, Duncalf, Goldiner & Foldes], A372
 - tetanic fade following administration of [Mirakhur, Gibson & Clarke], A334
- vecuronium**
- administration in divided doses does not accelerate onset of action [Brady, Mirakhur, Clarke & Gibson], A347
 - assessment of evoked acceleration response during recovery from [Werner, Jensen, Kirkegaard Nielsen & Viby-Mogensen], A344
 - automated infusion of, quantitative comparison of thenar electromyographic and force displacement signals during [Ebert, Carroll & Bradley Jr.], A343
 - changes in intraocular pressure during rapid sequence induction of anesthesia using propofol or thiopental with [Elliott, Mirakhur & Shepherd], A483
 - dose-response curves on human diaphragm [Chauvin, Lebrault & Duvaldestin], A348
 - duration of neuromuscular blockade with, influence of H₂ blockers on, in postpartum patients vs. nonpregnant controls [Tessen, Adenwala, Camp & Joyce], A451
 - effect of succinylcholine on recovery from, comparing orbicularis oculi and adductor pollicis muscle [Joseph & Beatie], A342
 - following induction of anesthesia with propofol or thiopental, intraocular pressure during, influence of additional dose of induction agent on [Elliott, Mirakhur & Shepherd], A484
 - high dose, onset, duration, and recovery following [Ginsberg, Glass, Shafron, Mace, Quill & Mardekian], A341
 - negative chronotropic actions in chronically instrumented dogs pretreated with propranolol and/or diltiazem [Schmeling, Kampine, Bernstein & Wartier], A90
 - pancuronium vs., cardiovascular effects of, in premature infants with hyaline membrane disease [Hamza, Macquin, Wood, Devictor & Huault], A515
 - pharmacodynamics of, in obese [Weinstein, Matteo, Ornstein, Goldstoft & Thal], A346
 - pharmacodynamics of, in two muscle groups [Gilly, Redl, Werba, Streinzer, Draxler & Spiss], A614
 - for rapid sequence induction in patients undergoing cesarean section [Tessen, Johnson, Skjonsby, Kubicek & Joyce], A452
 - relationship between twitch depression and train-of-four fade [Durant, Nguyen & Katz], A333
 - resistance to, in patients receiving carbamazepine [Bulkley, Ebrahim, Roth, DeBoer & Run], A345
 - tetanic fade following administration of [Mirakhur, Gibson & Clarke], A334
- Neuromuscular transmission**
- abdominal wall tension decreases with time despite constant levels of neuromuscular blockade [Ensalada, Muravchick, Rosato, DeFeo & Weber], A431
- paralysis**
- depletion of readily releasable acetylcholine stores [Foldes, Chaudhry, Kinjo & Nagashima], A338
 - posttetanic responses in evaluation of profound nondepolarizing neuromuscular block [Gyermek], A335
 - prejunctional effects of potent inhalation anesthetics in man and cat [Stanec & Baker], A336
 - vesamicol inhibits uptake of acetylcholine by synaptic vesicles [Nagashima, Kinjo, Chaudhry & Foldes], A337
 - in preeclamptic women receiving magnesium sulfate [Ramanathan, Sibai, Pillai & Angel], A633
- stimulator, nerve**
- posttetanic responses in evaluation of profound nondepolarizing neuromuscular block [Gyermek], A335
 - prejunctional effects of potent inhalation anesthetics in man and cat [Stanec & Baker], A336
 - relationship between twitch depression and train-of-four fade [Durant, Nguyen & Katz], A333
 - tetanic fade following administration of nondepolarizing neuromuscular blocking agents [Mirakhur, Gibson & Clarke], A334
- Neurosurgery, See under Surgery**
- Neurosurgical anesthesia, See under Anesthesia**
- Neurotoxicity, See under Toxicity**
- Nicardipine, See under Ions, calcium channel blockers**
- Nifedipine, See under Ions, calcium channel blockers**
- Nimodipine, See under Ions, calcium channel blockers**
- Nisoldipine, See under Ions, calcium channel blockers**
- Nitrogen, See under Hyperbaria**
- Nitrogen analyzer, See under Equipment**
- Nitroglycerin, See under Anesthetic techniques, hypotension, induced**
- Nitroprusside, See under Anesthetic techniques, hypotension, induced**
- Nitrous oxide, See under Anesthetics, gases**
- NMR, See Measurement techniques, nuclear magnetic resonance**
- Nonbreathing circuits, See under Equipment, circuits**
- Norepinephrine, See under Sympathetic nervous system, catecholamines**
- Nuclear magnetic resonance, See under Measurement techniques**
- Nurse anesthetists, See under Manpower**
- Nutrition**
- parenteral
 - with lipid, enhancement of bacterial elimination and attenuation of hemodynamic derangements of sepsis from [Doty, Dehring, Kraft, Traber & Herndon], A150
- O**
- Obesity, See under Complications**
- Obstetric anesthesia, See under Anesthesia**
- Occlusion, coronary, See under Heart**
- Open circuits, See under Equipment, circuits**
- Operating rooms**
- anesthesia simulation in actual environment of [Gaba & DeAnda], A467
 - temperature
 - heat loss and [English, Searle & Scott], A162
 - use of auditory alarms in [Kestin, Miller & Lockhart], A191
- Opioids, See Analgesics, narcotic**
- Organizations**
- American Society of Anesthesiologists
 - physical status classification of, adequacy of, in predicting mortality in blunt trauma [Koch, McLellan, Wortzman, Bertram & Szalai], A482
- Orthopedic anesthesia, See under Anesthesia**
- Orthopedic surgery, See under Surgery**
- Outcome analysis, See under Measurement techniques**
- Outpatient anesthesia, See under Anesthesia**
- Oximeter, pulse, See under Equipment**
- Oximetry, pulse, See under Monitoring**
- Oxygen, See also under Hypoxia; Monitoring**
- apneic oxygenation in pediatric patients [Kernisan, Adler, Gibbons & Runions], A521

- blood levels
in children with congenital heart disease, effect of premedication on [De Bock, Petrilli, Davis & Motoyama], A492
pulmonary gas exchange and [Rasanen, Downs & Oates], A172
consumption, *See under individual organs*
cyanosis
accuracy of pulse oximetry in [Lazzell & Jopling], A169
oxyhemoglobin saturation
pulmonary gas exchange and [Rasanen, Downs & Oates], A172
oxyhemoglobin-dissociation curve
effect of sevoflurane on P_{50} and PO_2 measurements [Kambam, Holaday, Horton & Parris], A198
effects of inositol hexaphosphate induced high P_{50} on isolated rabbit heart with free and limited coronary blood flow [Baron, Vicaut, Stucker, Villereal, Ropars, Teisseire, Viars & Duvelloy], A102
saturation
changes among patients receiving local anesthesia [Kitz, Aukburg & Lecky], A264
in children with congenital heart disease, effect of premedication on [De Bock, Petrilli, Davis & Motoyama], A492
continuous, effect of premedication in cardiac patient prior to transport to operating room [Hensley Jr., Dodson, Larach, Martin & High], A4
tension
alveolar, comparison of two formulas for calculation of, in canine oleic acid-induced pulmonary edema [Johnston, Vinten-Johansen, Bowton, Strickland & Royster], A110
changes during induced hypotension with nitroglycerin, isoflurane and ATP in subhuman primates [Fukunaga, Ito, Iijima, Kubota & Miyamoto], A8
effects of hypocapnia and hypercapnia on liver surface PO_2 in dog [Okazaki, Okutsu, Numata & Fukunaga], A88
intravenous clonidine produces hypoxemia [Eisenach], A49
pulmonary gas exchange and [Rasanen, Downs & Oates], A172
Oxygen electrodes, *See under Measurement techniques, electrodes*
Oxygenator, *See under Surgery, cardiovascular*
Oxyhemoglobin dissociation, *See under Blood*
Oxyhemoglobin saturation, *See under Oxygen*
Oxyhemoglobin-dissociation curve, *See under Oxygen*
Oxymorphone, *See under Analgesics, narcotic*

P

- Pacemakers, *See under Equipment*
 $PaCO_2$, *See Carbon dioxide, hypercarbia; Carbon dioxide, hypocarbia*
Pain, *See also under Analgesia; Analgesics; Measurement techniques*
cancer, metastatic, epidural butamben for treatment of [Shulman], A245
experimental
visceral, chronic model for, in rat [Coombs, Colburn, Degnan & Rogers], A673
visceral, in pregnant rats, failure of intrathecal nalbupine to suppress [Marando, Sinatra, Fu & Collins], A447
intractable, in cancer patients, morphine injections in cisterna magna for [Schoeffler, Haberer, Monteillard & Bouetard], A246
measurement
visceral, chronic model for, in rat [Coombs, Colburn, Degnan & Rogers], A673
pathologic
postherpetic neuralgia, sympathetic blockade vs. adenosine monophosphate for prevention and treatment of [Brookshire, Cook & Sklar], A247

- Pancuronium, *See under Neuromuscular relaxants*
Paralysis, *See under Neuromuscular transmission*
Parasympathetic nervous system
atropine
and inhibition of effect of metoclopramine pretreatment on gastric contents in morbidly obese patient [Goldberg, Norris, Larijani, Marr & Seltzer], A289
Parenteral nutrition, *See under Nutrition*
Pediatric anesthesia, *See under Anesthesia*
Pediatric surgery, *See under Surgery*
PEEP, *See Ventilation, positive end-expiratory pressure*
Pentazocine, *See under Analgesics, narcotic*
Pentobarbital, *See under Anesthetics, intravenous; Hypnotics, barbiturates*
Peridural anesthesia, *See Anesthetic techniques, peridural*
Peridural space, *See under Anatomy*
 pH , *See under Acid-base equilibrium*
Pharmacodynamics
atracurium, in elderly [deBros, Okutani, Lai, Lawrence & Basta], A604
atracurium, phenytoin does not interfere with [deBros, Okutani, Lai, Lawrence & Basta], A607
BW B1090U, in healthy surgical patients receiving N_2O/O_2 isoflurane anesthesia [deBros, Basta, Ali, Wargin & Welch], A609
chronically instrumented rat model for combined pharmacokinetic and CNS pharmacodynamic assessment of anesthetics [Ebling, Burm, Field & Stanski], A674
metocurine, in infants, children, and adults [Weinstein, Matteo, Ornstein, Goldstoft & Diaz], A615
 3H -morphine, in rat spinal cord, following intrathecal administration [Nishio, Kitahata, Murata, Sinatra & Collins], A394
pediatric rectal methohexitone induction with and without rectal suctioning after sleep [Kestin, McIlvaine, Lockhart, Kestin & Jones], A493
propofol infusions [Shafer, Shafer, Doze & White], A668
vecuronium, in two muscle groups [Gilly, Redl, Werba, Streinzer, Draxler & Spiss], A614
vecuronium and atracurium, in obese [Weinstein, Matteo, Ornstein, Goldstoft & Thal], A346
Pharmacokinetics
acebutolol blood levels during hypothermic cardiopulmonary bypass [Mantz, Marty, Blanchot, Trouvin, Farinotti & Desmonts], A13
age and intravascular mixing during induction with thiopental [Henthorn, Krejcie & Avram], A663
alfentanil, in piglet [Davis, Stiller, Cook, Ingram & Roeber], A505
alterations of benzodiazepines used for anesthesia, influence of, on residual sedation in elderly [Servin, Luscombe, Farinotti & Desmonts], A656
amrinone, in infants [Lawless, Burckart, Thompson & Siewers], A145
atracurium, in elderly [deBros, Okutani, Lai, Lawrence & Basta], A604
atracurium, phenytoin does not interfere with [deBros, Okutani, Lai, Lawrence & Basta], A607
atracurium and metabolites, in normal and renal failure patients [van den Brom, Wierda & Agoston], A606
atracurium induced neuromuscular block is prolonged in hepatic vascular occlusion [Tsai, Lee & Mok], A605
BW B1090U, in healthy surgical patients receiving N_2O/O_2 isoflurane anesthesia [deBros, Basta, Ali, Wargin & Welch], A609
during cardiac arrest [Emerman, Pinchak, Hancock & Hagen], A149
chronically instrumented rat model for combined pharmacokinetic and CNS pharmacodynamic assessment of anesthetics [Ebling, Burm, Field & Stanski], A674

diffusion

bubble oxygenators and [Nussmeier, Moskowitz, Weiskopf, Cohen & Eger II], A197

distribution

bubble oxygenators and [Nussmeier, Moskowitz, Weiskopf, Cohen & Eger II], A197

of ³H-morphine, following lumbar epidural administration in rabbits [Wang, Hiller, Holland, Simon, Hillman & Turn-dorf], A253

effects of age on plasma protein binding of sufentanil [Meistelman, Benhamou, Mahe, Levron, Mazoit, Ecoffey & Truffa-Bachi], A518

fentanyl, administered by computer controlled infusion pump [Shafer, Martinez, Stanski & Scott], A666

fentanyl, during continuous infusion in critically ill patients [Alazia, Levron, Guidon & Francois], A665

hepatic clearance of sufentanil in humans [Schedewie, Lee, Cowan, Gold, Bottorff, Peters, Heerdt & Angel], A291

intravenous lidocaine, in pediatrics, effect of age on [LeDez, Strong, Reider, Burrows & Lerman], A500

intravenous lidocaine, in pediatrics, effect of congenital heart disease on [LeDez, Strong, Reider, Burrows & Lerman], A71

kinetics

bupivacaine, after short and long term infusions, in conscious dogs [Mazoit, Lambert, Froidevaux, Gerard & Berdeaux], A274

bupivacaine, during axillary brachial plexus block in renal failure [Chauvin, Mazoit, Andrivon, Goeau & Duvaldestin], A261

teaching tool for, personal computer spreadsheet [Pinchak], A224

lidocaine, after epidural administration, influence of hepatic blood flow on [Saada, Bonnet, Piraube, Benoit & Rey], A251

methadone, in children and adolescents in perioperative period [Berde, Sethna, Holzman, Reidy & Gondek], A519

metocurine, in infants, children, and adults [Weinstein, Matteo, Ornstein, Goldstoft & Diaz], A615

midazolam, in anesthetized cirrhotic patients [Chauvin, Haberer, Ferrier, Trouvin, Farinotti & Duvaldestin], A290

models

personal computer spreadsheet [Pinchak], A224

during nitroprusside infusion, comparison of left atrial and systemic venous administration [Jaffe & Kien], A35

pediatric rectal methohexitone induction with and without rectal suctioning after sleep [Kestin, McIlvaine, Lockhart, Kestin & Jones], A493

pipecuronium, in CABG patients [Wierda, Karliczek, van den Brom, Kersten-Kleef & Agoston], A613

pipecuronium, influence of renal failure on [Caldwell, Canfell, Castagnoli, Lynam, Fahey, Fisher & Miller], A612

pipecuronium and pancuronium [Caldwell, Castagnoli, Canfell, Fahey, Lynam, Fisher & Miller], A611

prolonged elimination of midazolam in patients recovering from cardiac surgery [Maitre, Funk & Crevoisier], A655

propofol administered by prolonged continuous intravenous infusion in man [Albanese, Aufray, Lacarelle, Martin & Gouin], A667

propofol infusions [Shafer, Shafer, Doze & White], A668

serum protein binding and cardiotoxicity of bupivacaine and mepivacaine [Santos, Pedersen, Finster, Morishima & Arthur], A249

sufentanil, in elderly [Spielvogel, Caron, Levron & Lienhart], A389

thiopental, age and, reassessment of [Krejcie, Henthorn, Avram & Morton], A664

uptake

maternal and fetal, of bupivacaine vs. lidocaine, at steady state plasma drug concentrations [Morishima, Pedersen, Santos, Finster & Covino], A437

via bubble oxygenators [Nussmeier, Moskowitz, Weiskopf, Cohen & Eger II], A197

volume of distribution in patients with gram-negative sepsis in ICU [Mitchell, Wilson, Dodek & Russell], A126

Pharmacology**acetylcholine**

blood levels during hypothermic cardiopulmonary bypass [Mantz, Marty, Blanchot, Trouvin, Farinotti & Desmots], A13

adenosine

hypotension induced with, regional cerebral blood flow in rats and [Monk, Sperry, Durieux, Walker & Longnecker], A577

increased production of, by heart, during acute coronary occlusion in man [Bardenheuer, Hofling, Fabry & Peter], A311

and regional cerebral blood flows during deliberate hypotension complicated by hemorrhage [Sperry, Monk, Durieux, Walker & Longnecker], A575

regional hemodynamic effects of induced hypotension with [Monk, Sperry, Durieux, Walker & Longnecker], A34

alinidine

antitachycardic effects in patients after open heart surgery [Spiss, Rosenits, Haslinger, Redl & Haider], A44

almitrine bismesylate

low-dose, enhancement of hypoxic pulmonary vasoconstriction with, during canine one-lung hypoxia [Chen, Miller, Clarke, Clergue, Marshall & Marshall], A548

aminoglycosides

volume of distribution in patients with gram-negative sepsis in ICU [Mitchell, Wilson, Dodek & Russell], A126

amrinone

differential attenuation of anesthetic-induced myocardial depression in vitro following isoflurane, but not halothane, anesthesia [Neal, Wolf & Mathew], A91

dobutamine and, combined cardiovascular effects of [Sciolaro, Carrier, Emery, Cork, Gallo, Barkenbush, Perrotta & Copeland], A42

inotropism and, in vivo, end-systolic pressure-volume relationships in assessment of [Grayson, Marino, Yaster, Weiss & Kass], A600

milrinone with, vs. nitroprusside, during enflurane anesthesia in dog [Makela & Kapur], A601

pharmacokinetics in infants [Lawless, Burckart, Thompson & Siewers], A145

thrombocytopenia associated with, short-term administration and [Hines & Barash], A599

azathioprine

fails to alter dose-response curve of *d*-tubocurarine [Glidden, Jeevendra Martyn & Tomera], A357

captopril

effect on tachyphylaxis to sodium nitroprusside [Stead, Bloor, Van Etten & Flacke], A37

carbamazepine

resistance to vecuronium in patients receiving [Bulkley, Ebrahim, Roth, DeBoer & Run], A345

clonidine

antitachycardic effects in patients after open heart surgery [Spiss, Rosenits, Haslinger, Redl & Haider], A44

epidural, effects of, in pregnant ewes [Eisenach, Rose, Dewan & Grice], A448

epidural, hemodynamic and spinal cord blood flow effects of, in sheep [Grice & Eisenach], A219

intrathecal, microdose, morphine and, for postoperative analgesia [Coombs, Jensen & Murphy], A238

intravenous, fetal hypoxemia produced by [Eisenach, Rose, Dewan & Grice], A449

intravenous, hypoxemia produced by [Eisenach], A49

- and MAC for isoflurane in dogs [Maze, Vickery, Merlone & Gaba], A374
- and potentiation of morphine [Sperry, DiFazio & Moscicki], A391
- reduction of ADH response and dose requirement during nitroprusside induced hypotension by [Ghignone, Quintin, Noe & Calvillo], A38
- subarachnoid, spinal blood flow effect of [Crosby & Russo], A417
- decomposition of sodium nitroprusside by blood components [Bates & Baker], A307
- dipyridamole**
 - isoflurane vs., effects on myocardium supplied by chronically narrowed artery and, in dog [Zimpfer, Mayer & Steinber-eithner], A587
- dobutamine**
 - amrinone and, combined cardiovascular effects of [Sciolaro, Carrier, Emery, Cork, Gallo, Barkenbush, Perrotta & Copeland], A42
 - effects on systolic and diastolic coronary bypass graft flow in humans [Beloucif, Payen, Laborde, Bousseau & Echter], A40
 - peripheral effects of, in postoperative low-cardiac-output state [Cork, Gallo Jr., Levinson, Smith & Copeland], A41
- dose-response curves**
 - BW A938U, in children [Goudsouzian, Alifimoff, Liu, Embree, McNulty & Foster], A366
 - d*-tubocurarine, azathioprine fails to alter [Glidden, Jeevendra Martyn & Tomera], A357
 - pipecuronium bromide, in elderly, under balanced anesthesia [Azad, Goldberg, Larijani, Ritter, Marr, Beach & Seltzer], A370
 - succinylcholine, single vs. cumulative techniques [Smith, Donati & Bevan], A358
 - for vecuronium, on human diaphragm [Chauvin, Lebrault & Duvaldestin], A348
- Fenoldopam**
 - renal vasodilating infusions of, influence on hemodynamic response of inhalation anesthetics in rat [Ebling, Nunez & Field], A101
- in vitro cyanide release from sodium nitroprusside in different intravenous solutions [Ikeda, Schweiss, Frank & Homan], A308
- milrinone**
 - with amrinone or nitroprusside during enflurane anesthesia in dog [Makela & Kapur], A601
- superoxide dismutase**
 - effects on neurologic injury following global cerebral ischemia [Snelling, Ackerman, Dean, North & Traystman], A153
- Phenobarbital**, *See under* Induction, enzymes
- Phenylephrine**, *See under* Sympathetic nervous system, sympathomimetic agents
- Phenytoin**, *See under* Anticonvulsants
- Phosphorus-31** nuclear magnetic resonance, *See under* Measurement techniques, nuclear magnetic resonance
- Physostigmine**, *See under* Antagonists, benzodiazepine
- Pipecuronium**, *See under* Neuromuscular relaxants
- Placenta**, *See also* Anesthesia, obstetric; **Pregnancy**
 - esmolol in gravid ewe, transplacental passage and hemodynamic effects of [Ostman, Chestnut, Robillard, Weiner & Herrig], A635
 - propofol during cesarean section, placental transfer of [Dailland, Lirzin, Cockshott, Jorrot & Conseiller], A454
- Plasma atrial natriuretic factor**, *See under* Polypeptides
- Platelets**, *See under* Blood
- Pneumonia**, *See under* Complications
- Polypeptides**
 - angiotensin
 - concentrations during anesthesia in rat [Hoffman, Phillips & Kimura], A320
 - captopril
 - effect on tachyphylaxis to sodium nitroprusside [Stead, Bloor, Van Etten & Flacke], A37
- endorphins**
 - effects of oxymorphone or fentanyl on plasma concentrations of [Falumy, Bottros, Charchaflich, Sunder & Carr], A395
 - release of β -endorphin by epidural morphine [Donnenfeld, Ramanathan, Parker, Vargas & Turndorf], A446
- enkephalins**
 - secretion of, in cats [Gaumann, Yaksh, Tyce & Lucas], A677
- plasma atrial natriuretic factor**
 - concentrations during anesthesia in rat [Hoffman, Phillips & Kimura], A320
 - control of circulatory volume and sodium excretion during cardiac surgery by [Wood, Bullington, Hammon, Imada & Inagami], A18
 - and renal effects of PEEP ventilation [Kharasch, Yeo, Laposky, Kenny & Buffington], A330
- renin**
 - enflurane alters compensatory humoral and hemodynamic responses to hemorrhage [Zimpfer, Mayer, Kotai & Placheta], A53
 - resistance to hypotensive action of isoflurane not due to increase in plasma activity of [Bernard, Pinaud, Remi & Souron], A381
 - role in postcarotid endarterectomy hypertension [Goldberg, Seltzer, Azad, Smullens, Marr & Larijani], A569
- substance P**
 - release of, from cultured dorsal root ganglia, inhibition of, by opioids [Chang, Berde, Holz, Steward & Kream], A388
- Position**
 - effects**
 - cardiovascular**
 - changes associated with anesthesia and surgery in nephrectomy position [Rich, Weissman & Triner], A69
 - incidence of dysrhythmias during pulmonary artery catheterization and [Keusch, Winters & Thys], A184
 - ventilatory**
 - supine and lateral decubitus positions in anesthetized children [Larsson, Jonmarker, Lindahl & Werner], A499
 - nerve damage**
 - brachial plexus injury and musculoskeletal complaints after cardiac surgery, influence of internal mammary artery dissection and left arm position on [Roy, Charlton & Stafford], A167
- Positive end-expiratory pressure**, *See under* Ventilation
- Positron emission tomography**, *See under* Measurement techniques, tomography
- Postoperative analgesia**, *See under* Analgesia
- Postspinal headache**, *See under* Complications, headache
- Potassium**, *See under* Ions
- Potency, anesthetic**
 - age factors
 - sevoflurane in newborn swine and [Callaghan, Burrows, Miyasaka, Volgyesi & Lerman], A503
- MAC**
 - of co-administered halothane and isoflurane, in rat [Skeehan, Larach, Hensley Jr., Schuler & Derr], A379
 - determination of, comparison of ulnar nerve tetanic stimulation and clamping of anterior axillary fold to surgical incision for [Schultz, Katz & Pavlin], A669
 - isoflurane, awake, not affected by analgesic doses of morphine [Gross & Alexander], A375
 - isoflurane, in dogs, profoundly reduced by azepexole [Maze, Vickery, Merlone & Gaba], A374
 - of isoflurane, in rat, intrathecal morphine reduces [Drasner, Bernards & Ciriales], A670

- of sevoflurane, in humans and New Zealand white rabbit [Scheller, Partridge & Saidman], A373
 - sevoflurane in newborn swine and [Gallagher, Burrows, Miyasaka, Volgyesi & Lerman], A503
 - phosphoinositide analysis in rats with altered volatile anesthetic sensitivity [Haycock & Evers], A378
 - of secondary alcohol stereoisomers [Firestone, Alifimoff & Miller], A380
 - Pregnancy**
 - chronotropic effect of isoproterenol is reduced during [DeSimone, Leighton, Norris, Chayen & Menduke], A460
 - comparison of noninvasive hemodynamic measurements obtained by thoracic electrical bioimpedance between third trimester preeclamptic and normal pregnant patients [Ellis, Reese & Blass], A634
 - effect of vasopressor agents on uterine artery blood flow velocity in normovolemic guinea pig subjected to ritodrine infusion during [Chestnut, Ostman, Weiner, Hdez & Wang], A459
 - effects of epidural clonidine in, in ewes [Eisenach, Rose, Dewan & Grice], A448
 - hypertension induced by, ewe model of [Joyce, Longmire, Tessem, Baker & Jones], A455
 - visceral pain in, in rats, failure of intrathecal nalbuphine to suppress [Marando, Sinatra, Fu & Collins], A447
 - Premedication, See also Analgesics; Hypnotics**
 - antiemetic efficacy of oral metoclopramide vs. intravenous droperidol for outpatient laparoscopic procedures [Pandit, Kothary & Pandit], A425
 - atropine**
 - oral, in infants [Miller & Friesen], A491
 - solution with meperidine and diazepam, vs. oral transmucosal fentanyl citrate, in children [Nelson, Streisand, Mulder, East & Stanley], A490
 - fentanyl citrate, oral transmucosal, effects on gastric volume and acidity in children of [Leiman, Walford, Rawal, Katz, Marcus, van Nieuwenhuyzen, Cronau & Stanley], A489
 - midazolam, intramuscular, outpatient [Shafer, Urquhart, Doze & White], A419
 - scopolamine**
 - effect on continuous oxygen saturation in cardiac patient prior to transport to operating room [Hensley Jr., Dodson, Larach, Martin & High], A4
 - effect on preoperative arterial oxygen saturation in children with congenital heart disease [De Bock, Petrilli, Davis & Motoyama], A492
 - Pressoreceptors, See under Receptors**
 - Progesterone, See under Hormones**
 - Propofol, See under Anesthetics, intravenous**
 - Propranolol, See under Heart; Sympathetic nervous system, sympatholytic agents**
 - Prostacyclin, See under Hormones, prostaglandins**
 - Prostaglandins, See under Hormones**
 - Protamine, See under Blood, coagulation**
 - Protein**
 - albumin**
 - synthesis of, halothane decreases [Franks, Kruskal, Kirsch, Beachy & Harrison], A294
 - binding**
 - of bupivacaine and mepivacaine [Santos, Pedersen, Finster, Morishima & Arthur], A249
 - plasma, of sufentanil, age effects on [Meistelman, Benhamou, Mahe, Levron, Mazoit, Ecoffey & Truffa-Bachi], A518
 - Pseudocholinesterase, See under Enzymes**
 - Psychologic responses**
 - anxiety**
 - does not correlated with silent preoperative myocardial ischemia [Wilton, Sachdev, Luckoff, Kirsh & Shea], A470
 - effect of detailed anesthesia consent form on [Leighton, Bauman, Seltzer & Menduke], A567
 - Pulmonary artery, See under Lung**
 - Pulmonary artery catheters, See under Equipment, catheters**
 - Pulmonary edema, See under Complications, edema**
 - Pulmonary hypertension, See under Blood pressure, hypertension**
 - Pulse monitor, See under Measurement techniques**
 - Pulse oximeter, See under Equipment**
 - Pulse oximetry, See under Monitoring**
 - Pyrexia, malignant, See under Hyperthermia**
 - Pyridostigmine, See under Antagonists, neuromuscular relaxants**
- R**
- Radioactive tracers, See under Measurement techniques**
 - Radionuclide angiocardiology, See under Monitoring, angiocardiology**
 - Ranitidine, See under Histamine, antagonists**
 - Receptors**
 - chemoreceptors**
 - evidence against central control of cerebral blood flow with hypoxia [Miyabe, Koehler, Jones Jr., Gurtner & Traystman], A84
 - pressoreceptors**
 - baroreceptors**
 - function of, is heart rate-blood pressure relationship a valid clinical index of [Koushanpour, Behnia, Sinclair & Chang], A76
 - Records, anesthesia**
 - automated system for, performance of voice recognition component of [Smith, Brien & Banke], A193
 - Recovery**
 - assessment of, test used for [Cashman, Power, Jones & Adams], A434
 - characteristics of, following propofol anesthesia, compared with thiopental-isoflurane [Doze, Shafer & White], A398
 - comparison of effects of isoflurane and thiopental on neurologic outcome following focal ischemia in primates [Milde, Milde, Lanier & Michenfelder], A579
 - effects of superoxide dismutase on neurologic injury following global cerebral ischemia [Snelling, Ackerman, Dean, North & Traystman], A153
 - from halothane anesthesia, RO 15-1788 effects on [Geller, Weinbrum, Halpern, Nevo & Rudick], A422
 - hemodynamic and hyperadrenergic response to, prevention of post carotid endarterectomy hypertension with IV nisoldipine and [Braz, Coriat, Bertrand, Cheour, Landau, Mouquet & Viars], A140
 - hypertension in [Shapiro, McCarthy, Litwack, Carroll, Murphy & Ivankovich], A45
 - intravenous nicardipine for treatment of postoperative hypertension [Casar, Pool, Chelly, Barton, Turlapaty & Laddu], A141
 - neurologic, cardiac resuscitability and, after clinically relevant cardiac arrest of 20 min with cardiopulmonary bypass vs. cardiopulmonary resuscitation, in dogs [Angelos, Reich, Safar, Stezoski & Houghton], A147
 - neurologic outcome following regional cerebral ischemia with methohexital, midazolam, and etomidate [Baugman, Hoffman, Miletich & Albrecht], A582
 - after pediatric strabismus surgery, emesis in, effect of preoperative oral droperidol on incidence of [Kaya, Nicolson, Betts, Cochran & Swedlow], A531
 - pulse oximetry and incidence of hypoxemia during [Buschman, Morris, Warren, Philip & Raemer], A481
 - survey of 3,244 consecutive admissions to, at university teaching hospital [Gewolb, Hines & Barash], A471
 - time course of hemoglobin desaturation during immediate postan-

- esthetic period in children [Motoyama, Borland & Mutich], A508
- transport during, in children, oxygen administration prevents hypoxemia during [Patel, Norden & Hannallah], A529
- vecuronium, effect of succinylcholine on, comparing orbicularis oculi and adductor pollicis muscle [Joseph & Beatie], A342
- vecuronium, high dose [Ginsberg, Glass, Shafron, Mace, Quill & Mardekian], A341
- vecuronium and atracurium, assessment of evoked acceleration response during [Werner, Jensen, Kirkegaard Nielsen & Viby-Mogensen], A344
- Rectal anesthesia, See under Anesthetic techniques**
- Reflex sympathetic dystrophy, See under Sympathetic nervous system**
- Reflexes**
- baroreflex**
- arterial, effects of age and anesthesia on, in infant swine [Palmisano, Coon, van Brederode & Kampine], A522
- control during carotid endarterectomy under epidural anesthesia [Bonnet, Touboul, Szekeley & Abhay], A263
- control of heart rate during fentanyl anesthesia in newborn infants [Murat, Levron & Saint-Maurice], A523
- effects of propofol on control of heart rate in humans [Samain, Marty, Gauzit, Bouyet, Couderc & Desmonts], A75
- is heart rate-blood pressure relationship a valid clinical index of [Koushanpour, Behnia, Sinclair & Chang], A76
- Regional anesthesia, See under Anesthetic techniques**
- Relaxants, See Neuromuscular relaxants**
- Renal complications, See under Complications**
- Renin, See under Polypeptides**
- Research**
- anesthesia simulation in actual operating room environment [Gaba & DeAnda], A467
- creation of pregnancy induced hypertension model in pregnant ewe [Joyce, Longmire, Tessem, Baker & Jones], A455
- use of simulation to reduce animal studies [Quinn, Smith, Masuzawa, Martin, Mandel & Hatakeyama], A215
- Residents, See under Education; Manpower**
- Respiration, See Ventilation**
- Respiratory depression, See under Complications**
- Respiratory distress syndrome, See under Lung**
- Respiratory quotient, See under Metabolism**
- Respiratory resistance, See under Lung**
- Ribose, See under Metabolism**
- Ritodrine, See under Sympathetic nervous system, beta-adrenergic receptors**
- RO 15-1788, See under Antagonists, benzodiazepine**
- RX77989, See under Analgesics, narcotic**

S

- Sarcoplasmic reticulum, See under Muscle, skeletal**
- Sciatic nerve, See under Nerve**
- Scopolamine, See under Premedication**
- Seizures, See Complications, convulsions**
- Septic shock, See under Shock**
- Septicemia, See under Infection**
- Serotonin (5-hydroxytryptamine)**
- effects on lung metabolism [Watkins & Martin], A296
- Sevoflurane, See under Anesthetics, volatile**
- Shock**
- endotoxic**
- E. coli, canine, effect of verapamil on spleen in early stage of [Kimura, Hakoshima, Goto, Tomlinson, Krug & Arakawa], A128
- lung injury induced by, effects of beta-2 receptor agonist on [Sigurdsson, Mousawi & Christenson], A151

- in sheep, central venous hypertension worsens pulmonary edema formation following [Allen, Drake, Gabel & Laine], A125
- hemorrhagic, severe, high vs. low inflation pressures of MAST in [Riou, Barriot, Bodenat & Viars], A204
- septic**
- canine model of, hemodynamic effects of anesthesia in, comparative study of [Van der Linden, Gilbert, Engelman & Vincent], A413
- canine model of, peak systolic pressure-end systolic volume ratio correlates with changes in ejection fraction in [Hoffman, Natanson, Danner, MacVittie, Walker & Parrillo], A127
- human, norepinephrine for treatment of [Martin, Saux, Albanese, Bonneru & Gouin], A648
- Shunting, See under Ventilation**
- Skeletal muscle, See Muscle, skeletal**
- Sleep**
- deprivation of, and attenuation of hypercapnic ventilatory response in man [Ochiai, Motoyama, Winter & Walczak], A331
- pediatric rectal methohexitone induction with and without rectal suctioning after, pharmacokinetic and pharmacodynamic study of [Kestin, McIlvaine, Lockhart, Kestin & Jones], A493
- REM, disorders of breathing in, marked hypoxemia after gastroplasty due to [Knill, Moote, Rose & Skinner], A552
- Sodium, See under Ions**
- Somatosensory evoked potentials, See under Monitoring**
- Spectroscopy, mass, See Measurement techniques, mass spectroscopy**
- Spinal anesthesia, See under Anesthetic techniques**
- Spinal cord**
- blood flow**
- effects of epidural clonidine in sheep [Grice & Eisenach], A219
- effects of subarachnoid clonidine on [Crosby & Russo], A417
- dorsal horn ganglia**
- cultured, substance P release from, opioid inhibition of [Chang, Berde, Holz, Steward & Kream], A388
- injury**
- in rat, anesthesia protects against [Cole, Shapiro, Drummond & Zivin], A585
- synapses**
- pharmacodynamics of ³H-morphine in rat, following intrathecal administration [Nishio, Kitabata, Murata, Sinatra & Collins], A394
- Spiradoline, See under Analgesics, narcotic**
- Spontaneous ventilation, See under Ventilation**
- Steroids, See under Anesthetics, intravenous**
- Stomach, See under Gastrointestinal tract**
- Stored blood, See under Transfusion**
- Subarachnoid anesthesia, See Anesthetic techniques, spinal**
- Subarachnoid space, See under Anatomy**
- Substance P, See under Polypeptides**
- Succinylcholine, See under Neuromuscular relaxants**
- Sufentanil, See under Analgesics, narcotic; Anesthetics, intravenous**
- Superoxide dismutase, See under Pharmacology**
- Surfactant, See under Lung**
- Surgery**
- abdominal**
- anesthesia and, risk of, 1979 and 1983 [Lichtor, Roizen & Lane], A465
- diaphragmatic activity after, effects of thoracic extradural block on [Pansard, Philip, Bahnini, Brichant, Delima, Mankikian & Viars], A537
- pattern of breathing after, role of abdominal muscles in [Raimbault, Dureuil, Veber & Desmonts], A536
- transhiatal esophagus resection, hemodynamic changes associated with [Yakoubian, Bougeois, Marty, Marmuse & Desmonts], A119

aneurysm

- postoperative hypertension following [Domino & Cullen], A573
- cardiac**
 - anesthesia and, risk of, 1979 and 1983 [Lichter, Roizen & Lane], A465
 - brachial plexus injury and musculoskeletal complaints after, influence of internal mammary artery dissection and left arm position on [Roy, Charlton & Stafford], A167
 - children undergoing, caudal morphine for pain control following [Rosen, Rosen & Bank], A510
 - end-tidal carbon dioxide measurements in infants after [Wessel, Boyd III & Hickey], A175
 - monitoring of cardiac output by pulsed Doppler aortic implantable microprobes after [Fratacci, Laborde, Dupuy, Grec & Payen], A637
 - in neonates, randomized trial of high-dose sufentanil anesthesia in, hormonal and hemodynamic stress responses in [Anand, Carr & Hickey], A501
 - in neonates, randomized trial of high-dose sufentanil anesthesia in, metabolic stress response in [Anand & Hickey], A502
 - outcome after, choice of anesthetic agent and [Tuman, McCarthy & Ivankovich], A597
 - previous, effect on esophageal pacing current thresholds in patients undergoing coronary artery bypass grafting [Buchanan, Clements, Reves, Hochman & Kates], A17
 - prolonged elimination of midazolam in patients recovering from [Maitre, Funk & Crevoisier], A655

cardiopulmonary bypass

- antitachycardic effects of alinidine in patients after [Spiss, Rosenits, Haslinger, Redl & Haider], A44
- carbon dioxide elimination during, in infants and children [Larach, Hensley, High, Williams & Snider], A19
- cardiopulmonary resuscitation vs., cardiac resuscitability and neurologic recovery after clinically relevant cardiac arrest of 20 min with [Angelos, Reich, Safar, Stezoski & Houghton], A147
- control of circulatory volume and sodium excretion by atrial natriuretic factor during [Wood, Bullington, Hammon, Imada & Inagami], A18
- effects of dobutamine on systolic and diastolic coronary bypass graft flow in humans [Beloucif, Payen, Laborde, Bousseau & Echter], A40
- effects of previous cardiac surgery on esophageal pacing current thresholds in patients undergoing [Buchanan, Clements, Reves, Hochman & Kates], A17
- efficacy of noninvasive transcutaneous cardiac pacing in patients undergoing [Kelly, Royster & Angert], A16
- enzyme marker of renal damage and [Suntay, Howie, McSweeney, Galbraith & Smith], A15
- hypothermic, acebutolol blood levels during [Mantz, Marty, Blanchot, Trouvin, Farinotti & Desmonts], A13
- hypothermic, adequate anticoagulation determined independently by activated coagulation time during [Haddon, Gravlee, Bean, Miller & Angert], A26
- hypothermic, cerebrovascular responsiveness to PaO₂ is preserved during [Rogers, Stump, Prough, Angert & Wallenhaupt], A12
- hypothermic, effect of age on cerebral blood flow autoregulation during [Brusino, Reves, Prough, Stump & Croughwell], A10
- hypothermic, effects of pump flow reduction on cerebral blood flow during [Prough, Stump, Rogers, Phipps & Hinshelwood], A11
- influence of perfusion flow rates on cerebral blood flow and oxygen consumption during [Murkin, Farrar, Cleland, MacDonald & Mayer], A9

- membrane oxygenator vs. bubble oxygenator during [Hakoshima, Goto, Abe, Benson, Moran & Arakawa], A21
- neuropsychologic dysfunction after [Nussmeier & Fish], A14
- predictors of left ventricular function and mortality after [Ossey, Hawkins, Reves & McIntyre], A596
- prolonged PT and PTT despite adequate heparin neutralization following, in children [Oh, Bell & Hughes], A22
- silent myocardial ischemia before, in patients with unstable angina [Metzler, Gombotz, List & Rehak], A3
- thrombelastograph and Sonoclot signature monitoring of changes in blood coagulation following [Newland, Chapin, Hurlbert, Kennedy & Newland], A199
- use of thrombelastograph to predict and assess management of excessive bleeding after [Logas, Spiess, Hughes, McCarthy, Jaimovich & Ivankovich], A142

cardiovascular

- aortic, abdominal, dipyridamole thallium imaging in prediction of cardiac risk in [Bertrand, Godet, Baron, Coriat, Mundler, Fauchet & Viars], A117
- aortic, thoracic cross-clamping, isoflurane vs. sodium nitropruside to control hypertension during [Godet, Bertrand, Hag, Coriat, Cheour, Kieffer & Viars], A118
- etomidate vs. thiopental anesthesia for elective cardioversion [Ford, Maze & Gaba], A143
- oxygenator, membrane vs. bubble [Hakoshima, Goto, Abe, Benson, Moran & Arakawa], A21

carotid endarterectomy

- cerebral blood flow during [Young, Prohovnik, Correll, Wang & Lucas], A416
- hypertension following, prevention of, with IV nisoldipine, hemodynamic and hyperadrenergic response to recovery [Braz, Coriat, Bertrand, Cheour, Landau, Mouquet & Viars], A140
- hypertension following, role of epinephrine, norepinephrine and renin and treatment with labetalol in [Goldberg, Seltzer, Azad, Smullens, Marr & Larijani], A569
- under epidural anesthesia, baroreflex control during [Bonnet, Touboul, Szekely & Abhay], A263

coronary artery bypass

- effect of previous cardiac surgery on esophageal pacing current thresholds in patients undergoing [Buchanan, Clements, Reves, Hochman & Kates], A17
- effects of dobutamine on systolic and diastolic flow in humans [Beloucif, Payen, Laborde, Bousseau & Echter], A40
- intravenous labetalol for blood pressure reduction following [Prough, Mills, Kiger & Bowton], A136
- oxygen sufentanil anesthesia with, hemodynamic effects of BW A938U in patients undergoing [Stoops, Curtis, Kovach, McCammon, Stoelting & Warren], A368
- pharmacokinetics and cardiovascular effects of pipecuronium bromide in patients undergoing [Wierda, Karliczek, van den Brom, Kersten-Kleef & Agoston], A613
- pressure-rate ratio and diastolic time during, prediction of myocardial ischemia by [Shiraki, Hong, Jo, Strom, Goldiner & Oka], A595
- risk in patients following [Khambatta, Sonntag, Larsen, Stephan, Stone & Kettler], A598

craniotomy

- hemodynamic response to, under general anesthesia, effect of bupivacaine scalp infiltration on [Rung, Hillman, Thompson & Davis], A432

laparoscopy

- absorption of insufflation gas during, hazard of [de Sousa & Tyler], A476
- outpatient, antiemetic efficacy of oral metoclopramide vs. intravenous droperidol for [Pandit, Kothary & Pandit], A425

- outpatient, diagnostic, fentanyl vs. isoflurane in [Lecky, Kitz, Andrews, Young & Conahan], A433
- liver transplantation**
- autotransfusion during [Kang, Virji, Lewis, Aggarwal, Freeman & Fortunato], A83
- in children, intraoperative changes in coagulation during [Kang, Borland, Picone & Martin], A525
- impact on anesthesia personnel and services of programs for [Spiess, Narbone, McCarthy, Rettke & Ivankovich], A568
- mechanism of myocardial dysfunction during, role of isolated right ventricular failure in [Ellis, Lichtor, Chung, Polk, Emond, Broelsch, Thistlethwaite, Feinstein & Roizen], A82
- prognostic significance of blood glucose levels during [Mallett, Kang, Freeman, Aggarwal, Gasior & Fortunato], A313
- neurosurgery**
- anesthesia and, risk of 1979 and 1983 [Lichtor, Roizen & Lane], A465
- electrocardiographic changes following [Morales Jr., Shapiro, Donegan, Bird, Huycke, Rupp, Wickersham & Rampil], A65
- intracranial aneurysm clipping, postoperative hypertension following [Domino & Cullen], A573
- intracranial tumors cause abnormal cerebral blood flow responses to vasomotor stimuli [Stump, Bertels & Prough], A415
- orthopedic**
- foot, combined interosseous tibial nerve and common peroneal nerve blocks for [Shulman, Peng, Nyunt, Kepes & Blancato], A288
- hip arthroplasty, in elderly patients, comparison of sufentanil and fentanyl with N₂O halothane anesthesia for [Gauzit, Marty, Couderc, Bouyet, Flaischler & Desmots], A120
- hip replacement, cardiovascular reactions due to histamine release during [Tryba, Thole & Wruck], A68
- hip replacement, cemented, oxygen desaturation during [Rosenberg, Bernstein, Bernstein & Ramanathan], A551
- knee replacement, hemodynamic changes during [Tartiere, Gerard, Samii & Quesnel], A106
- spinal, hyponatremia following [Shibutani, Komatsu, Taddonio & Lees], A157
- pediatric**
- cardiopulmonary bypass, carbon dioxide elimination during [Larach, Hensley, High, Williams & Snider], A19
- cardiopulmonary bypass, prolonged PT and PTT despite adequate heparin neutralization following [Oh, Bell & Hughes], A22
- thoracic**
- comparison of high frequency jet ventilation with conventional ventilation for bronchopleural fistula in acute respiratory failure [Bishop, Benson, Sato & Pierson], A116
- intrapleural administration of lidocaine for treatment of pain after [Carli, Mazoit, Zetlaoui & Lambert], A241
- prevention of respiratory depression from epidural morphine with nalbuphine hydrochloride following [Doran, Baxter, Samson, Penning & Dube], A248
- transplantation**
- rapid, bedside, and noninvasive assessment of brain death for [Lamer, Pilorget, Payen, Beloucif, Moreau & Echter], A148
- urologic**
- lithotripsy**
- extracorporeal shock wave, epidural anesthesia and, neurologic complications after [Korbon, Lander, Jenkins, Lippert & Carey], A228
- extracorporeal shock wave, epidural anesthesia and, pathologic effects on epidural space of [Lander, Korbon, Monk, Arnold, Jenkins, Langley & Williamson], A227
- extracorporeal shock wave, epidural bupivacaine and fentanyl analgesia for [Bromage, Al-Faqih, Kadiwal & Tamilarasan], A226
- extracorporeal shock wave, epidural bupivacaine and methadone analgesia for [Drenger, Shir, Magora & Davidson], A217
- extracorporeal shock wave, epidural fentanyl for [Pandit, Powell, Crider, McLaren & Rutter], A225
- vascular**
- anesthesia and, risk of, 1979 and 1983 [Lichtor, Roizen & Lane], A465
- comparison of isoflurane and sodium nitroprusside when used to control hypertension during [Godet, Bertrand, Hag, Coriat, Cheour, Kieffer & Viars], A118
- continuous lumbar epidural fentanyl for postoperative pain relief in [Bell, Levette & Larijani], A234
- dipyridamole thallium imaging in prediction of cardiac risk in patients scheduled for [Bertrand, Godet, Baron, Coriat, Mundler, Fauchet & Viars], A17
- effect of peripheral vascular disease on accuracy of noninvasive, continuous blood pressure measurement from finger [East, Pace, Sorenson, East & Westenskow], A186
- is increased operative stress associated with worse outcome? [Roizen, Lampe, Benefiel, Sohn, Lichtor, Smith, Stoney, Ehrenfeld, Goldstone, Reilly, Thisted, Eger II & Hamilton], A1
- Sympathetic block, See Anesthetic techniques, regional**
- Sympathetic nervous system**
- activity during hypercapnia and hypercapnic hypoxia in dogs [Hoka, Arimura, Bosnjak & Kampine], A105
- adrenal medulla**
- vasculature of, adrenergic receptors of [Jordan, Breslow, Kubos & Traystman], A58
- alpha-adrenergic receptors**
- of adrenal medullary vasculature [Jordan, Breslow, Kubos & Traystman], A58
- mechanism of action in sensitization of heart by halothane [Hayaishi, Sumikawa, Tashiro & Yoshiya], A56
- time course and hemodynamic effects of bolus administration in anesthetized patients [Schwinn, Clements, Hawkins, Kates & Reves], A72
- beta-adrenergic blockade**
- adequacy of automated blood pressure cuffs with epinephrine test doses in patients with [Johnson, Hom & Mulroy], A187
- blood pressure response to epinephrine test dose in [Hom, Johnson & Mulroy], A268
- beta-adrenergic receptors**
- of adrenal medullary vasculature [Jordan, Breslow, Kubos & Traystman], A58
- effects on endotoxin-induced lung injury [Sigurdsson, Mousawi & Christenson], A151
- myocardial, density of, decreased by halothane in dogs as assessed by positron emission tomography [Maze, Marty, Seto, Crouzel, Valloise, Crouzel, Lancon & Syrota], A55
- ritodrine**
- effect of vasopressor agents on uterine artery blood flow velocity in normovolemic gravid guinea pig subjected to infusion of [Chestnut, Ostman, Weiner, Hdez & Wang], A459
- catecholamines**
- of adrenal medullary vasculature [Jordan, Breslow, Kubos & Traystman], A58
- effects of oxymorphone or fentanyl on plasma concentrations of [Fahmy, Bottros, Charchafieh, Sunder & Carr], A395
- efflux from perfused dog adrenals, pentazocine-induced [Fukumitsu, Sumikawa, Kinouchi & Yoshiya], A387

epinephrine

- bupivacaine with, for intercostal nerve blocks [Johnson, Mickler, Arthur, Rosenberg, Wilson & Covino], A257
- chemical stability of, in pH-adjusted solutions [Bonhomme, Benhamou, Martre & Preaux], A279
- effect of adrenergic stress response on myocardial tolerance of global ischemia during narcotic anesthesia [Hill, Pollard, Simone, Reves & Lowe], A73
- effect on duration of analgesia with epidural bupivacaine and fentanyl [Grice, Eisenach, Dewan & Weiner], A440
- effect on uterine artery blood flow velocity in normovolemic gravid guinea pig subjected to ritodrine infusion [Chestnut, Ostman, Weiner, Hdez & Wang], A459
- effects of propofol on activity in humans [Samain, Marty, Gauzit, Bouyet, Couderc & Desmonts], A75
- is increased operative stress associated with worse outcome? [Roizen, Lampe, Benefiel, Sohn, Lichtor, Smith, Stoney, Ehrenfeld, Goldstone, Reilly, Thisted, Eger II & Hamilton], A1
- levels of, do not correlate with silent preoperative myocardial ischemia [Wilton, Sachdev, Luckoff, Kirsh & Shea], A470
- local anesthetics containing, maternal hemodynamic responses to, in pre-eclampsia [Dror, Abboud, Moore, Gangolly, Zhu, Mantilla, Swart, Mosaad, Davis & Makar], A632
- oxidation rate of, effects of pH on [Parnass, Baughman, Miletič & Albrecht], A280
- phenylephrine vs., and cerebral and myocardial perfusion and somatosensory evoked potentials during and following CPR in dogs [Schleien, Koehler, Berkowitz, Dean, Gervais, Michael, Rogers & Traystman], A650
- role in postcarotid endarterectomy hypertension [Goldberg, Seltzer, Azad, Smullens, Marr & Larijani], A569
- safety and efficacy of 2% bisulfite-free chloroprocaine with and without, for epidural anesthesia in parturient [Abboud, Mosaad, Makar, Gangolly, Dror, Zhu, Mantilla, Davis, Moore & Swart], A631
- secretion of, in cats [Gaumann, Yaksh, Tyce & Lucas], A677
- stress response following reversal of benzodiazepine-induced sedation [White, Shafer, Boyle & Doze], A661
- stress response to local anesthesia for cataract surgery [Moss, Donlon Jr. & McGoldrick], A67

norepinephrine

- effect of adrenergic stress response on myocardial tolerance of global ischemia during narcotic anesthesia [Hill, Pollard, Simone, Reves & Lowe], A73
- effects of propofol on activity in humans [Samain, Marty, Gauzit, Bouyet, Couderc & Desmonts], A75
- is increased operative stress associated with worse outcome? [Roizen, Lampe, Benefiel, Sohn, Lichtor, Smith, Stoney, Ehrenfeld, Goldstone, Reilly, Thisted, Eger II & Hamilton], A1
- levels of, do not correlate with silent preoperative myocardial ischemia [Wilton, Sachdev, Luckoff, Kirsh & Shea], A470
- role in postcarotid endarterectomy hypertension [Goldberg, Seltzer, Azad, Smullens, Marr & Larijani], A569
- secretion of, in cats [Gaumann, Yaksh, Tyce & Lucas], A677
- stress response following reversal of benzodiazepine-induced sedation [White, Shafer, Boyle & Doze], A661
- stress response to local anesthesia for cataract surgery [Moss, Donlon Jr. & McGoldrick], A67
- for treatment of human hyperdynamic septic shock [Martin, Saux, Albanese, Bonneru & Gouin], A648

dopamine

- secretion of, in cats [Gaumann, Yaksh, Tyce & Lucas], A677
- pentobarbital disturbance of control of pulmonary circulation in

- conscious dogs [Goll, Nyhan, Clougherty, Chen & Murray], A547

reflex sympathetic dystrophy

- intravenous regional bretylium for treatment of [Ford, Forrest Jr. & Eltherington], A218

sympatholytic agents**acebutolol**

- blood levels during hypothermic cardiopulmonary bypass [Mantz, Marty, Blanchot, Trouvin, Farinotti & Desmonts], A13

bretylium

- intravenous regional, treatment of reflex sympathetic dystrophy with [Ford, Forrest Jr. & Eltherington], A218
- droperidol abolishes acute thrombus formation in stenosed dog coronary arteries [Bertha, Sill, Nugent & Fols], A78

esmolol

- assessment of transplacental passage and hemodynamic effects of, in gravid ewe [Ostman, Chestnut, Robillard, Weiner & Herrig], A635
- bolus loading technique for treatment of intraoperative tachycardia and/or hypertension [Reves, Croughwell, Hawkins & Jacobs], A33
- for deliberate hypotension, randomized controlled trial of [Ornstein, Matteo, Weinstein & Schwartz], A423
- effect on cerebral blood flow during intracranial hypertension and hemorrhagic hypovolemia [Bunegin, Albin & Gelineau], A424

labetalol

- effect on hemodynamic response to intubation [Inada, Cullen, Nemeskal & Teplick], A31
- effects on beat-by-beat cardiovascular responses to rapid sequence induction in humans [Bernstein, Nelson, Ebert, Woods & Roerig], A32
- intravenous, for blood pressure reduction following myocardial revascularization [Prough, Mills, Kiger & Bowton], A136
- intravenous, preinduction, ablation of hemodynamic responses to tracheal intubation with [Leslie, Kalayjian, McLoughlin, Russell & Plachetka], A30
- role in postcarotid endarterectomy hypertension [Goldberg, Seltzer, Azad, Smullens, Marr & Larijani], A569

propranolol

- negative chronotropic actions of sufentanil and vecuronium in chronically instrumented dogs pretreated with [Schmeling, Kampine, Bernstein & Warltier], A90
- UL-FS 49 vs., hemodynamic effects of, in conscious and isoflurane-anesthetized chronically instrumented dogs [Warltier, Riley, Gross, Schmeling & Kampine], A48

sympathomimetic agents

- effects on endotoxin-induced lung injury [Sigurdsson, Mousawi & Christenson], A151

ephedrine

- effect on uterine artery blood flow velocity in normovolemic gravid guinea pig subjected to ritodrine infusion [Chestnut, Ostman, Weiner, Hdez & Wang], A459
- long term sterility of diluted or pre-drawn solutions of [Mayweather, Santos, Juneja & Stanek], A160

isoproterenol

- effects in porcine model of pulmonary hypertension [Priellip, Pearl, McLean & Rosenthal], A154
- peripheral effects in postoperative low-cardiac-output state [Cork, Gallo Jr., Levinson, Smith & Copeland], A43
- as safe and effective intravenous marker in laboring women [Leighton, DeSimone, Norris & Chayen], A626

mephentermine

- effect on uterine artery blood flow velocity in normovolemic

gravid guinea pig subjected to ritodrine infusion [Chestnut, Ostman, Weiner, Hdez & Wang], A459

phenylephrine
effect on uterine artery blood flow velocity in normovolemic gravid guinea pig subjected to ritodrine infusion [Chestnut, Ostman, Weiner, Hdez & Wang], A459

epinephrine vs., and cerebral and myocardial perfusion and somatosensory evoked potentials during and following CPR in dogs [Schleien, Koehler, Berkowitz, Dean, Gervais, Michael, Rogers & Traystman], A650

time course and hemodynamic effects of α_1 -adrenergic bolus administration in anesthetized patients [Schwinn, Clements, Hawkins, Kates & Reves], A72

Sympatholytic agents, See under Sympathetic nervous system

Sympathomimetic agents, See under Sympathetic nervous system

Synapses, See under Spinal cord

T

Tachycardia, See under Heart, arrhythmia

Tachyphylaxis, See under Immune response

Teaching, See Education

Techniques, See Anesthetic techniques; Measurement techniques

Temperature, See also Hyperthermia; Hypothermia; Monitoring body
arterial PO₂ correction for, during hypothermia [Moon & Cam-poresi], A20
effect of warm IV solutions on management of surgical hypother-mia [Papenburg, English, Foot, Farias & Hinchey], A479
serum creatinine concentration and clearance during whole body hyperthermia ($\geq 41.5^\circ\text{C}$) under general anesthesia [Cronau Jr., Mansfield & Bull], A306

cooling
effect of warm IV solutions on management of surgical hypother-mia [Papenburg, English, Foot, Farias & Hinchey], A479

heating
serum creatinine concentration and clearance during whole body hyperthermia ($\geq 41.5^\circ\text{C}$) under general anesthesia [Cronau Jr., Mansfield & Bull], A306

metabolism
serum creatinine concentration and clearance during whole body hyperthermia ($\geq 41.5^\circ\text{C}$) under general anesthesia [Cronau Jr., Mansfield & Bull], A306

operating room, See under Operating rooms

regulation
active, during isoflurane anesthesia [Sessler, Olofsson & Rubin-stein], A405
in parturient, effect of epidural sufentanil on [Johnson, Sevarino, Lema, Datta, Ostheimer & Naulty], A450

Tension, See Eyes, intraocular pressure; Oxygen

Teratogenicity, See under Toxicity

Tetanic stimulation, See Measurement techniques, neuromuscular blockade

Tetracaine, See under Anesthetics, local

Thermolulution cardiac output, See under Measurement techniques

Thermoregulation, See Temperature, regulation

Thiopental, See under Anesthetics, intravenous

Thoracic anesthesia, See under Anesthetic techniques, peridural

Thoracic surgery, See under Surgery

Thrombelastography, See under Measurement techniques

Thrombosis, See under Complications

Tibial nerve, See under Nerve

Tidal volume, See under Ventilation

Tomography, See under Measurement techniques

Topical anesthesia, See under Anesthetic techniques

Total parenteral nutrition, See Nutrition, parenteral

Toxicity, See also Shock, endotoxic
hepatic
comparative, of halothane, isoflurane, and enflurane, using iso-lated perfused rat liver [Mathieu, Ford, Ray & Taylor], A302
of halothane exposure, hypoxia, and phenobarbital induction in monolayers of rat hepatocytes [Schieble, Costa, Heffel & Trudell], A316
during halothane or isoflurane anesthesia in guinea pigs [Gelman & Hursh], A301

neurotoxicity
of Nesacaine-CE [Buffington & Powers], A256

nitrous oxide concentration delays human bone marrow engraft-ment [Hogan & Cypcar], A477

renal
effects of fluoride ion on ischemic and non-ischemic canine kidney [Rice, Southard, Hjelmhaug & Belzer], A304

teratogenicity
nitrous oxide, in rats, effects of halothane, isoflurane, and folinic acid on [Fujinaga, Baden, Yhap & Mazze], A456

Trace anesthetics, See Anesthetics, gases, trace concentrations

Transesophageal echocardiography, See under Measurement tech-niques, echocardiography

Transfusion, See also Blood, replacement
autotransfusion
biochemical, metabolic, and hematologic effects of intraoperative processing of CPDA-1 and AS-1 packed red cells [Belani & Estrin], A156
effect on decreasing risk of homologous transfusion [Bernstein & Rosenberg], A478
during liver transplantation [Kang, Virji, Lewis, Aggarwal, Free-man & Fortunato], A83

stored blood
effect on decreasing risk of homologous transfusion [Bernstein & Rosenberg], A478

Transplantation, See under Surgery, individual procedures; individ-ual organs

Trasylol, See Blood, anticoagulants, aprotinin

Trauma, See under Complications

Trinitrin, See Anesthetic techniques, hypotension, induced, nitro-glycerin

Tubes, See under Equipment

d-Tubocurarine, See under Neuromuscular relaxants

U

Ulcers, See under Complications

UL-FS 49, See under Ions, calcium channel blockers

Ultrasound, See Measurement techniques, Doppler ultrasound

Uridine, See under Metabolism

Urologic anesthesia, See under Anesthesia

Urologic surgery, See under Surgery

Uterus, See also Anesthesia, obstetric; Placenta; Pregnancy
blood flow
effect of vasopressor agents on, in normovolemic gravid guinea pig subjected to ritodrine infusion [Chestnut, Ostman, Weiner, Hdez & Wang], A459
magnesium sulfate and [Suresh & Nelson], A636

V

Vaporizers, See under Equipment

Vascular pressures, See under Heart

Vascular resistance, See under Lung

Vascular surgery, See under Surgery

Vecuronium, See under Neuromuscular relaxants**Veins****cannulation**

in children, analgesic effects of eutectic mixture of local anesthetics vs. intradermal lidocaine infiltration prior to [Soliman, Broadman, Hannallah & McGill], A513

right internal jugular vs. left subclavian, complications from, comparison of [Neal, Wallfisch & Arens], A222

compliance

effect of verapamil on spleen in early stage of canine *E. coli* endotoxin shock [Kimura, Hakoshima, Goto, Tomlinson, Krug & Arakawa], A128

pulse-volume change in lower extremity with epidural blockade and lumbar sympathectomy [Park & Macnamara], A283

vena cava

superior, hypertension, pleural effusions can be caused by [Allen, Drake, Gabel & Laine], A138

venous pressure

central venous hypertension worsens pulmonary edema formation following endotoxemia in sheep [Allen, Drake, Gabel & Laine], A125

is CVP the appropriate downstream pressure in systemic vascular resistance calculations [Beattie, Stevenson, Maruschak, Rosenfeld & Watkins], A87

pleural effusions can be caused by superior vena caval hypertension [Allen, Drake, Gabel & Laine], A138

Vena cava, See under Veins**Venous pressure, See under Veins****Ventilation****airway pressure**

transient analysis using ECG-triggered phrenic nerve stimulation [Peters, Kindred & Robotham], A81

alveolar

gas mixing dependence on pulmonary blood flow vs. cardiogenic oscillations [Brampton, Mackenzie, Moorman & Watson], A80

anesthetics, effects of

bupivacaine cervical epidural blockade [Chauvin, Lebrault, Gauneau, Goeau & Duvaldestin], A262

halothane vs. isoflurane and [Slavchenko, Sandler, Murphy, Vosu & Lau], A535

midazolam and flumazenil [Mora, Torjman & DiGiorgio], A534
relationship of cisternal CSF morphine levels to changes in ventilation during intravenous or fourth cerebroventricular infusions of morphine sulfate in awake dog [Pelligrino, Peterson, Henderson & Albrecht], A553

reversal of morphine-induced respiratory depression during fourth ventricular administration of butorphanol or nalbuphine in awake dogs [VadeBoncouer, Pelligrino & Albrecht], A542

routine spinal or epidural, and rib cage distortion during spontaneous inspiration [Urney, Lambert, Concepcion, Brown & Leith], A538

sedative concentration of isoflurane and halothane in goat [Popic, Will & Jameson], A328

sedative doses of midazolam significantly depress hypoxic ventilatory drive in man [Alexander & Gross], A533

sensitivity to hypoxia after administration of agonist/antagonist [Camporesi, Glass, Moon, Steinhilber & Wagoner], A541

sufentanil infusion and responses to hypercapnia and hypoxia during isoflurane anesthesia in dogs [Abdul-Rasool, Aqleh, Jenkins, Valcke & Ward], A539

apnea

gas mixing during, at low lung volume [Mackenzie, Moorman, Smith, Gundry, Coughlin & Hankins], A540

inductance plethysmography monitors, computerized artifact rejection for [East, East, Waterfall, Mathews & Pace], A190

oxygenation in pediatric patients [Kernisan, Adler, Gibbons & Runions], A521

postanesthetic, in premature infants, prevention of, caffeine in [Welborn, de Soto, Hannallah, Fink & Boeckx], A507

threshold, in lambs, effect of age and halothane concentration on [Kurth, Hutchinson, Davenport & Caton], A520

carbon dioxide response

attenuated by sleep deprivation, in man [Ochiai, Motoyama, Winter & Walczak], A331

and mini-dose intrathecal morphine for relief of post-caesarean section pain [Abboud, Dror, Mossad, Zhu, Gangolly, Mantilla, Swart, Silao, Makar, Moore, Davis & Lee], A464

carbon dioxide tension (gradients)

effects of nitrous oxide during halothane or enflurane anesthesia in children [Murat, Chausain & Saint-Maurice], A498

diaphragm

transient analysis using ECG-triggered phrenic nerve stimulation [Peters, Kindred & Robotham], A81

high frequency jet

conventional ventilation vs., for bronchopleural fistula in acute respiratory failure [Bishop, Benson, Sato & Pierson], A116

with heliox [Cros, Guenard, Boudey & Erny], A201

vaporizer for inhalation anesthetics during [Mazloomdoost, Klain, Nemoto, Lin & Foon], A210

mechanical

automated sulfur hexafluoride washout FRC measurement system for [East, Bloem, Van Ark, Peng & Pace], A206

diagnosis of nosocomial pneumonia with, evaluation of new protected bronchial catheter for [Rossignon, Rouby, Belbachir, Nicolas, Martin de Lassale & Viars], A123

prevention of stress bleeding and risk of nosocomial pneumonia with [Tryba], A124

transient analysis using ECG-triggered phrenic nerve stimulation [Peters, Kindred & Robotham], A81

treatment of subarachnoid hemorrhage with nimodipine affects pulmonary gas exchange in patients requiring [Germann, Aloy, Zabloudil, Richling & Zimpfer], A115

pattern

after upper abdominal surgery, role of abdominal muscles in [Raimbault, Dureuil, Veber & Desmonts], A536

perfusion (ventilation-perfusion)

real-time continuous estimation of gas exchange by dual oximetry [Rasanen, Downs, DeHaven & Garner], A173

position and, See Position, effects, ventilatory**positive end-expiratory pressure**

aggressive application produces increased morbidity and mortality [Carroll, Tuman, Braverman, Logas & Ivankovich], A114

atrial natriuretic peptide and renal effects of [Kharasch, Yeo, La-posky, Kenny & Buffington], A330

canine asymmetric pulmonary edema treated with, does hypothermia improve oxygen delivery in [Johnston, Vinten-Johansen, Strickland & Bowton], A155

effect of ischemia on relationship between pericardial pressure and right atrial pressure during [Biondi, Schulman, Matthay & Barash], A555

evaluation of efficacy of, in early postoperative acute respiratory failure [Ben Ammar, Rouby, Bodin, Rossignon, Rotcayg & Viars], A651

intraocular pressure and [Nimmagadda, Joseph, Salem, Villarreal & Lopez], A132

shunting

real-time continuous estimation of gas exchange by dual oximetry [Rasanen, Downs, DeHaven & Garner], A173

- spontaneous
 - automated sulfur hexafluoride washout FRC measurement system for [East, Bloem, Van Ark, Peng & Pace], A206
- tidal volume
 - absence of agonist or inverse agonists effects of overdose of RO 15-1788 [Forster, Crettenand & Morel], A144
 - effects of nitrous oxide during halothane or enflurane anesthesia in children [Murat, Chaussain & Saint-Maurice], A498
- Ventilation-perfusion, *See* Ventilation, perfusion
- Ventilators, *See under* Equipment
- Ventricular fibrillation, *See under* Heart, arrhythmia, fibrillation
- Ventricular function, *See under* Heart, function
- Verapamil, *See under* Ions, calcium channel blockers
- Vital capacity, *See under* Lung, capacity
- Volatile anesthetics, *See* Anesthetics, volatile
- Volume, tidal, *See under* Ventilation
- Vomiting
 - antiemetics
 - metoclopramide
 - oral, intravenous droperidol vs., for outpatient laparoscopic procedures [Pandit, Kothary & Pandit], A425
 - pretreatment with, does atropine inhibit effect of, in morbidly obese patient [Goldberg, Norris, Larijani, Marr & Seltzer], A289
- incidence
 - postoperative, after pediatric strabismus surgery, effect of preoperative oral droperidol on [Kaya, Nicolson, Betts, Cochran & Swedlow], A531
 - postoperative, in pediatric eye surgery, not affected by nitrous oxide [Gibbons, Davidson & Adler], A530
 - survey of 3,244 consecutive admissions to post-anesthesia recovery room at university teaching hospital [Gewolb, Hines & Barash], A471
- nausea
 - acupuncture in treatment of [Dundee, Fitzpatrick & Ghaly], A165
 - survey of 3,244 consecutive admissions to post-anesthesia recovery room at university teaching hospital [Gewolb, Hines & Barash], A471

X

- Xanthine dehydrogenase, *See under* Enzymes
- Xanthine oxidase, *See under* Enzymes
- X-rays, *See under* Complications, diagnosis