

INDEX OF AUTHORS AND SUBJECTS • VOLUME 23

Index of Issues: January–February, pp. 1–178; March–April, pp. 179–286; May–June, pp. 287–406; July–August, pp. 407–596; September–October, pp. 597–734; November–December, pp. 735–894.

Author entries for original articles include the title of the articles and co-authors under the first author; reference is made from the joint authors.

Subject entries for all material in the **JOURNAL** (except **Literature Briefs**) appear in this index. The page number in **bold face** indicates an original article, and the name of the author, in brackets, follows the subject entry. Entries from the **JOURNAL** departments are followed by the department in which the subject matter appears, i.e., Editorial, Current Comment and Abstract. **BOOK NOTICES** and **BOOK REVIEWS** are listed only under these headings.

ABRAMS, A. L., see GRABLE, E., jt. auth.

Accidents

- prevention of breathing anoxic gas mixtures during anesthesia [Epstein & others], **1**
- safety [editorial], **124**

Acid-Base Balance

- controlled with cardiopulmonary bypass and hypothermia [Carson & Morris], **618**
- effect on epinephrine-induced arrhythmias [Ueda & others], **342**
- effects of THAM used during anesthesia [abstract], **158**
- metabolic acidosis during anesthesia and surgery (review) [Bunker], **107**
- potassium levels and massive blood replacement [Schweizer & Howland], **735**

Acidosis: see under Acid-Base Balance

Adrenal Medulla

- discharge under halothane anesthesia [abstract], **148**

ADRIANI, J., The status of the consultant (editorial), **873**

Aerosols

- bronchodilators and mucolytic agents (review) [Lovejoy & Morrow], **460**

Air Embolism: see under Embolism

Airway

- acute chemical injury of, experience with six cases [Conner & others], **538**
- resistance, changes following intravenous *d*-tubocurarine [Westgate & others], **65**

Albumin

- influence on thiopental action in rats [Winters & others], **27**

Alkalosis: see under Acid-Base Balance

ALLEN, C. R., see WALKER, J. A., jt. auth.

ALPER, M. H., see FLACKE, W., jt. auth.

American Society of Anesthesiologists

- let's set our sights [editorial], **710**

Analeptics

- outmoded therapy of barbiturate poisoning [editorial], **713**

Analgesia: see Pain, relief

Analgesics: see Pain, relief; Narcotics; names of specific agents and compounds

- design of experiments evaluating [editorial], **711**

Anesthesia: see also under names of specific agents and procedures

aspects of renal homotransplantation [Vandam & others], **783**

blood carbonic anhydrase activity in anesthetized man [Christian & Greene], **179**

department, active management of tetanus based on experiences of (review) [Jenkins & Luhn], **690**

effect on patients receiving reserpine therapy [Munson & Jenicek], **741**

electrical: see Electronarcosis

general, effects on contractile responses of rabbit aortic strips [Price & Price], **16**

general, in mice, synergistic and antagonistic effects of premedication [Carson & Domino], **187**

general, with halogenated hydrocarbons, infiltration of epinephrine during [abstract], **156**

guide for anesthesiologists, myasthenia gravis (review) [Foldes & McNall], **837**

inhalational, concentration of halothane in closed and semiclosed circuits during controlled ventilation [Hill & Lowe], **291**

inhalational, disposal of carbon dioxide from apparatus used for [abstract], **148**

intermittent administration set [current comment], **877**

intrathecal, clinical observations on use of mepivacaine [Poe & others], **678**

local agents, toxicity modified by oxygen and combination of agents [Daos & others], **755**

local, effects of agents on heart force [abstract], **160**

management during open intracardiac surgery [Theye & others], **823**

management of child with cleft lip-palate malformation [Salanitre & Rackow], **610**

measurement of inspiratory force in anesthetized dogs [Bendixen & Bunker], **315**

spinal and extradural, compared effects upon blood pressure [Defalque], **627**

spinal, cause of pain from pneumatic tourniquet during [Egbert & Deas], **287**; [current comment], **881**

spinal, electromyograph in study of ventilation under [abstract], **165**

system, nebulizer for [current comment], **583**

time-dose curves, influence of respiratory parameters upon intravenous drug requirements [Keéri-Szanto & Ledue], **231**

- vomiting and aspiration during (review) [Bannister & Sattilaro], 251; [current comment], 718
- Anesthesiologist**
 aid to our Far East confreres [editorial], 875
 function of [current comment], 272; [current comment], 719
 machines and men [current comment], 136
 patient to [poem], 125
 postgraduate education [editorial], 577
 radiation exposure [current comment], 267
 share your medical journals, 765
 status of consultant [editorial], 873
 unjustified distractions [editorial], 265
- Anesthetics:** see under Anesthesia; names of specific agents and drugs
- Aneurysm**
 thoracic, obstruction from [current comment], 396
- Anoxia**
 prevention of accidental breathing of anoxic gas mixtures during anesthesia [Epstein & others], 1
- Antagonists:** see under Morphine
- Aorta**
 rabbit strips, effects of general anesthetics on contractile responses [Price & Price], 16
- Apnea**
 from hyperventilation, oxygen and carbon dioxide tensions as factors in respiration after [Sugioka & others], 776
- Apparatus and Instruments**
 carbon dioxide generator [current comment], 132
 continuous monitoring of respiration [current comment], 585
 device for holding equipment [current comment], 131
 device for immersion hypothermia [current comment], 395
 device for nasotracheal intubation [current comment], 130
 electrodes and electrode holders, electronarcosis by combination of direct and alternating current [Smith & Cullen], 682
 endotracheal tube, modified disposable [current comment], 717
 for inhalational anesthesia, disposal of carbon dioxide from [abstract], 148
 halothane analyzer [current comment], 391
 holder for blood pressure manometer [current comment], 269
 holder for epidural needle [current comment], 880
 infant mask for collection of respiratory samples [current comment], 876
 intermittent-anesthesia administration set [current comment], 877
 modification of laryngoscope blade [current comment], 394
 nebulizer for anesthetic system [current comment], 583
 nitrous oxide-oxygen "flush" system [current comment], 129
- Ohio halothane vaporizer, overdose with [current comment], 715
 swivel-joint [current comment], 715
 transfusion pump [current comment], 395
 ventimeter, continuous recording [current comment], 582
 "Y"-piece adaptor [current comment], 717
- Arrhythmias:** see also under Heart
 cyclopropane-epinephrine, in dogs, mephentermine and [Elliott], 762
- Asepsis**
 for inhalational therapy (review) [Kundsin & Walter], 507
- Aspiration**
 and vomiting during anesthesia (review) [Bannister & Sattilaro], 251; [current comment], 718
- Asthma**
 anesthesia and [abstract], 149
- Atropine**
 intravenous, effects during cyclopropane-succinylcholine anesthesia [Colón-Yordán & Jiménez-Vélez], 333
 scopolamine and related compounds (review) [Eger], 365
- AVERBOOK, B. D.,** see **LORHAN, P. H.,** jt. auth.
- Bacteria**
 culture of indwelling epidural catheters [Barreto], 643
- Bags:** see under Apparatus and Instruments
- BAGWELL, E. E.,** see **GADSDEN, R. H.,** jt. auth.
 —, and **WOODS, E. F.,** Cardiovascular effects of methoxyflurane, 51
 —, **WOODS, E. F.,** and **GADSDEN, R. H.,** Blood levels and cardiovascular dynamics during methoxyflurane inhalation in dogs, 243
- BALLINGER, C. M.,** see **UEDA, I.,** jt. auth.
- BANNISTER, W. K.,** and **SATTILARO, A. J.,** Vomiting and aspiration during anesthesia (review), 251
- BARACH, A. L.,** Historical background of inhalational therapy (review), 407
- BARBEE, W. H.,** see **PLOSS, R. E.,** jt. auth.
- Barbiturates:** see also Preanesthetic Medication: under specific compounds
 poisoning, analectics outmoded therapy of [editorial], 713
- BARRETO, R. S.,** Bacteriological culture of indwelling epidural catheters, 643
- BEARDEN, C. R.,** see **LORHAN, P. H.,** jt. auth.
- BEARMAN, A. J.,** (current comment), 130
- BELLEAU, C. D.,** see **LE TARD, F.,** jt. auth.
- BELLEVILLE, J. W.,** (current comment), 398
- BENDIXEN, H. H.,** and **BUNKER, J. P.,** Measurement of inspiratory force in anesthetized dogs, 315
 —, see **WESCOTT, D. A.,** jt. auth.
- BETCHER, A. M.,** Let's set our sights (editorial), 710
- Bicarbonate**
 plasma, effect of methoxyflurane-nitrous oxide anesthesia on [Dobkin & Song], 601

- BIDDER, T. G., (current comment), 266
 BITTE, E. M., see MORACA, P. P., jt. auth.
 BLASKOVICS, J. B., see WINTERS, W. D., jt. auth.
- Blood**
 arterial concentrations of halothane correlated with EEG patterns and clinical signs during anesthesia [abstract], 147
 arterial pH, oxygen saturation, P_{aCO_2} and plasma bicarbonate, effect of methoxyflurane-nitrous oxide anesthesia [Dobkin & Song], 601
 bleeding volume variations, effects of halothane, ether and thiopental in dogs [Marcus & others], 671
 circulation: actions of halothane [Deutsch & others], 631
 circulation: effects of extreme ether anesthesia in dogs [Pearcy], 605
 circulation, impedance plethysmography in anesthesiology [abstract], 162
 constituents, effect of buffer amine infusion on in hypercarbia and hypocarbia [Noe & others], 651
 effects of anesthesia on hemostatic mechanisms [Vanderveen & others], 92
 hemodynamic action of diethyl ether [Jones & others], 299
 hemodynamic effects of diethyl ether [Kubota & others], 306
 hemodynamic effects of oxygen inhalation [abstract], 144
 homogenates, solubility of halothane in [abstract], 153; [Larson & others], 349
 levels and cardiovascular dynamics during methoxyflurane inhalation in dogs [Bagwell & others], 243
 levels of ether, chloroform, halothane and methoxyflurane in dogs [Chenoweth & others], 101
 loss, obstetrical, with halothane anesthesia [abstract], 140
 pressure: see also Hypertension; Hypotension
 pressure, compared effects of spinal and epidural anesthesia upon [Defalque], 627
 pressure manometer, holder for [current comment], 269
 radioisotope tracers for simultaneous measurement of plasma and red cell volume and index of erythropoiesis [abstract], 138
 replacement (massive), potassium levels, acid-base balance and [Schweizer & Howland], 735
 serial microhematocrit determinations [current comment], 134
 simple technique for arterial sampling [current comment], 579
 transfusion pump [current comment], 395
 volume, effect of cyclopropane and halothane on [Grable & others], 828
- BOLPE, O., (current comment), 880
- BOOK NOTICES**
 Acta de L'Institut D'Anesthésiologie. Tome IX: P. Moulouguet and J. Bauman, 277
 Aggression et Réamination in Médecine Interne: P. Michon and A. Larcen, 277
 An Atlas of Detailed Normal Pneumoencephalographic Anatomy: Giovanni Di Chiro, 277
 A Guide to Dissection in Gross Anatomy: Russell T. Woodburne, 885
 Hemodynamics of Aortic and Mitral Valve Disease: Alvin J. Gordon, Paul A. Kirschner and Howard L. Moscovitz, 885
 Illustrated Manual of Neurologic Diagnosis: R. Douglas Collins, 885
 Laboratory Medicine—Hematology. Second Edition: John B. Maile, 885
 Medical-Surgical Nursing. Second Edition: Kathleen Newton Shaffer, Janet R. Sawyer and Audrey M. McCluskey, 277
 Oral Physiology: Sidney I. Silverman, 277
 Source Book of Medical History: Logan Clendening, 277
 The Art of Thinking: Dagobert D. Runes, 885
- BOOK REVIEWS**
Anatomy
 Essentials of Human Anatomy. Second Edition: Rossel T. Woodburne, 722
Anesthesia
 Analgesia and Anesthesia in Obstetrics. Second Edition: J. P. Greenhill, 884
 Anesthesia Abstracts, Volume 56: John S. Lundy and Florence A. McQuillen, 277; Volume 57, 401
 Anesthesia. A Manual for Students and Physicians: Stuart C. Cullen, 274
 An Introduction to Anaesthetics: John D. Laycock, 274
 Appraisal of Current Concepts in Anesthesiology: John Adriani, 591
 Chemistry and Physics of Anesthesia. Second Edition: John Adriani, 592
 Halothane: Max S. Sadove and Vernon E. Wallace, 721
 Halothane (Fluothane): C. Ronald Stephen and David M. Little, 401
 Introduction to Anesthesia. The Principles of Safe Practice: Robert D. Dripps, James E. Eckenhoff, and Leroy D. Vandam, 274
 Metabolic Effects of Anesthesia: S. H. Ngai, 720
 Regional Block. A Handbook for Use in the Clinical Practice of Medicine and Surgery. Third Edition: Daniel C. Moore, 591
Biochemistry
 Medicinal Chemistry. Volume 5: Warren J. Close, Leonard Doub, and Marvin A. Spielman, 276
Dentistry
 Local Anesthesia and Pain Control in Dental Practice: Leonard M. Monheim, 170
Diagnosis
 Vector Electrocardiography: Herman N. Uhley, 724
Dictionary
 Stedman's Medical Dictionary, 168
Hypnosis
 Religious Aspects of Hypnosis: William J. Bryan, 883
Journals
 Trauma, 725

Medical History

A History of Thoracic Surgery: Richard H. Meade, 273

Classics of Medicine and Surgery: C. N. B. Camac, 273

Essays on the First Hundred Years of Anaesthesia. Volume II: W. Stanley Sykes, 720

Medical Journals

Transfusion, 171

Medical Practice

The Doctors' Dilemmas: Louis Lasagna, 885

Nursing

Principles and Practice of Surgical Nursing: D. F. Ellison Nash, 276

Pathology

Histopathologic Effects of Local Anesthetic Drugs and Related Substances: Philip Pizzolato and Walter Mannheim, 169

Pharmacology

Drugs of Choice 1962-1963: Walter Modell, 725

Medical Pharmacology. Principles and Concepts: Andres Goth, 168

Pharmacology and Oral Therapeutics: Edward C. Dobbs, 275

A Simplified Physiology of the Human Body: Deryck Taverner, 724

Physiology

Cerebral Anoxia and the Electroencephalogram: Henri Gastaut and John Stirling Meyer, 169

Cilia, Ciliated Epithelium and Ciliary Activity. Volume 15, Modern Trends in Physiological Sciences: Jose A. Rivera, 885

Comparative Animal Physiology: Second Edition: C. Ladd Prosser and Frank A. Brown, 399

Diethyl Ether—Its Effects in the Human Body: Robert B. Dodd, 592

Disturbances of Heart Rate, Rhythm and Conduction: Eliot Corday and David W. Irving, 723

Fainting, Physiological and Psychological Considerations. Second Edition: George L. Engel, 724

Handbook on Clinical Electromyography: Robert B. Pearson, 170

Medical Physiology. Eleventh Edition: Phillip Bard, 275

New Methods of Studying Gaseous Exchange and Pulmonary Function: Alfred Fleisch, 724

Practical Electroencephalography for the Anesthesiologist: Verne L. Brechner, Richard D. Walter and John B. Dillon, 884

Respiration in Health and Disease: R. M. Chermiack and L. Chermiack, 399

Resuscitation

Emergency Resuscitation. Proceedings of the Symposium on Ventilatory and Circulatory Resuscitation: Henning Poulsen, 722

Surgery

An Atlas of Bronchoscopy: A. Huzly, 400

Atlas of Surgical Operations. Third Edition: Robert M. Zollinger and Elliott C. Cutler, 722

Planning the Surgical Suite: Warwick Smith, 167

Surgery as a Human Experience, The Psychodynamics of Surgical Practice: James L. Titchener and Maurice Levine, 167

Surgery. A Concise Guide to Clinical Practice: George L. Nardi and George D. Zuidema, 883

Surgery in the Aged: Frank Glenn, S. W. Moore and John M. Beal, 721

Surgery: Principles and Practice. Second Edition: Henry N. Harkins, Carl A. Moyer, Jonathan E. Rhoads, and J. Garrott Allen, 400

Year Book of General Surgery (1961-1962 Series): Michael E. De Bakey, 400

Boyd, T. F., see Marcus, P. S., jt. auth.

Brain

effects of intrathecal oxygen on cortical survival during cardiac arrest [abstract], 155

electroencephalographic effects of extreme ether anesthesia [Pearcy], 605

electroencephalographic patterns, correlation with arterial concentrations and clinical signs during halothane anesthesia [abstract], 147

electroencephalographic patterns during halothane anesthesia [current comment], 590

size and motion, effect of respiratory obstruction on [abstract], 142

Bronchus

aerosols, bronchodilators and mucolytic agents (review) [Lovejoy & Morrow], 460

Brown, I. M., see Foldes, F. F., jt. auth.

Brown, R. C., King, I. J., and McLaughlin, D. F. (current comment), 272

Buffer Amines: see also THAM

infusion, effect on certain blood constituents in hypercarbia and hypocarbia [Noe & others], 651

Bunker, J. P., see Bendixen, H. H., jt. auth.

—, Metabolic acidosis during anesthesia and surgery (review), 107

—, see Vanderveen, J. L., jt. auth.

Cale, J. O., Parks, C. R., and Jenkins, M. T., Hepatic and renal effects of methoxyflurane in dogs, 248

Calesnick, B., and Milligan, D., Antidiuretic effect of subnarcotic doses of phenazocine, 81

Carbocaine: see Mepivacaine

Carbon dioxide

blood carbonic anhydrase activity in anesthetized man [Christian & Greene], 179

disposal from apparatus used for inhalational anesthesia [abstract], 148

effect of buffer amine infusion on certain blood constituents in hypercarbia and hypocarbia [Noe & others], 651

effect of methoxyflurane-nitrous oxide anesthesia on P_{aCO_2} [Dobkin & Song], 601

- effect on epinephrine-induced arrhythmias [Ueda & others], **342**
 experimental correction of hypercapnic intracranial hypertension [Dos & others], **46**
 generator for stimulating respiration [current comment], **132**
 and its control, Lavoisier's research on [Foregger], **662**
 and oxygen tensions as factors in respiration after apnea from hyperventilation [Sugioka & others], **776**
- Carbonic Anhydrase**
 blood, activity in anesthetized man [Christian & Greene], **179**
- Cardiac:** see **Heart**
- Cardiopulmonary Bypass:** see **Oxygenator**
- Cardiovascular System:** see also under **Blood, Heart**
 bleeding volume variations, effects of halothane, ether and thiopental in dogs [Marcus & others], **671**
 blood levels and cardiovascular dynamics during methoxyflurane inhalation in dogs [Bagwell & others], **243**
 effects of methoxyflurane anesthesia [Walker & others], **639**
 effects of methoxyflurane [Bagwell & Woods], **51**: [abstract], **164**
 hemodynamic action of diethyl ether [Jones & others], **299**
 hemodynamic effects of diethyl ether [Kubota & others], **306**
 hemodynamic effects of oxygen inhalation [abstract], **144**
- CARSON, R. P., and DOMINO, E. F.,** Synergistic and antagonistic effects of premedication on general anesthetics in mice, **187**
- CARSON, S. A. A., and MORRIS, L. E.,** Controlled acid-base status with cardiopulmonary bypass and hypothermia, **618**
 —, see **YOUNG, T. M.,** jt. auth.
- Catheters:** see under **Apparatus and Instruments; Oxygen**
- Cerebrospinal Fluid**
 experimental correction of hypercapnic intracranial hypertension [Dos & others], **46**
- Chemicals**
 acute injury to airway and lungs, experience with six cases [Conner & others], **538**
- CHENOWETH, M. B., ROBERTSON, D. N., ERLEY, D. S., and GOLHKE, R.,** Blood and tissue levels of ether, chloroform, halothane and methoxyflurane in dogs, **101**
- Children**
 anesthetic management of cleft lip-palate malformation [Salanitre & Rackow], **610**
 dose-effect study of preoperative medication in [Rackow & Salanitre], **747**
 inhalational therapy in pediatrics (review) [Smith], **548**
- Chloral Hydrate**
 hypnotic activity of [abstract], **155**
- Chloroform**
 blood and tissue levels in dogs [Chenoweth & others], **101**
 output with 'copper kettle' [current comment], **581**
- CHRISTIAN, G., and GREENE, N. M.,** Blood carbonic anhydrase activity in anesthetized man, **179**
- Chromatography**
 gas, determination of methoxyflurane in blood [Gadsden & others], **831**
- Circulation:** see **Blood, circulation**
- Cleft Lip**
 -palate malformation, anesthetic management of child with [Salanitre & Rackow], **610**
- COBB, S.,** see **EDWARDS, G. T.,** jt. auth.
- COLÓN-YORDÁN, E., and JIMÉNEZ-VÉLEZ, J. L.,** Effects of intravenous atropine and scopolamine during cyclopropane-succinylcholine anesthesia, **333**
- COMROE, J. H., JR., and CONNER, E. H.,** jt. auth.
- CONNER, E. H., DUBOIS, A. B., COMROE, J. H., JR.,** Acute chemical injury of the airway and lungs. Experience with six cases, **538**
 —, see **SMITH, R. A.,** jt. auth.
- CONRAD, A.,** see **WINTERS, W. D.,** jt. auth.
- Consultant:** see under **Anesthesiologists**
- Copper Kettle**
 chloroform output with [current comment], **581**
- Corn Oil**
 influence on thiopental action in rats [Winters & others], **27**
- Cortex:** see under **Brain**
- CULLEN, S. C.,** see **SMITH, R. H.,** jt. auth.
- Curare**
 antagonist, neostigmine [Wescott & Bendixen], **324**
 effects on respiratory response curve [abstract], **139**
- Cyclopropane**
 anesthesia, cardiac excitability in [Smith & others], **766**
 and digitalis synergism with epinephrine [abstract], **151**
 effect on blood volume [Grable & others] **828**
 -epinephrine arrhythmias in dogs, mephentermine and [Elliott], **762**
 -succinylcholine anesthesia, intravenous atropine and scopolamine during [Colón-Yordán & Jiménez-Vélez], **333**
- D'AMBRUOSO, D. C.,** see **TOVELL, R. M.,** jt. auth.
- DAOS, F. G., LOPEZ, L., and VIRTUE, R. W.,** local anesthetic toxicity modified by oxygen and by combination of agents, **755**
- Darvon:** see ***d*-Propoxyphene**
- DAVIS, D. A.,** see **SUGIOKA, K.,** jt. auth.
- DAVIS, T. B.,** see **GALINDO, A. H.,** jt. auth.
- DEAS, T. C.,** see **EGBERT, L. D.,** jt. auth.
- DEFALQUE, R. J.,** Compared effects of spinal and extradural anesthesia upon the blood pressure, **627**
- DEJONG, R. H.,** (current comment), **881**
- Demerol:** see **Meperidine**

- DENSON, J. S., see ROBINSON, A., jt. auth.
- Detergents**
 intrathecal [editorial], 123
 intrathecal, experimental study [Smith & Conner], 5
- DEUTSCH, S., LINDE, H. W., DRIPPS, R. D., and PRICE, H. L., Circulatory and respiratory actions of halothane in normal man, 631
 —, see JONES, R. E., jt. auth.
- Diethyl Ether**
 anesthesia, cardiac excitability in [Smith & others], 766
 blood and tissue levels in dogs [Chenoweth & others], 101
 anesthesia (extreme), circulatory and electroencephalographic effects [Pearcy], 605
 effect on bleeding volume variations in dogs [Marcus & others], 671
 -halothane ratios, determination by infrared spectrometry [abstract], 143
 hemodynamic actions [Jones & others], 299
 hemodynamic effects of [Kubota & others], 306
 intravenous, uptake and distribution [abstract], 144
 uptake and distribution of [Eger & others], 647
- Digitalis**
 and cyclopropane synergism with epinephrine [abstract], 151
- Digitalization**
 against the negative inotropic effect of halothane in dogs [abstract], 150
 prophylactic, value in halothane anesthesia [Goldberg & others], 207
- Diuresis**
 antidiuretic effect of phenazocine [Calesnick & Milligan], 81
- DOBKIN, A. B., HARLAND, J. H., and FEDORUK, S., Trichlorethylene and halothane in a precision system: comparison of cardiorespiratory and metabolic effects in dogs, 58
 —, and SONG, Y., The effect of methoxyflurane-nitrous oxide anesthesia on arterial pH, oxygen saturation, P_{aCO_2} and plasma bicarbonate in man, 601
- DOMINO, E. G., see CARSON, R. P., jt. auth.
- DORNETTE, W. H. L., see POE, M. F., jt. auth.
- DOS, S. J., NAHAS, G. G., and PAPPER, E. M., Experimental correction of hypercapnic intracranial hypertension, 46
- DRIPPS, R. D., see DEUTSCH, S., jt. auth.
 —, see JONES, R. E., jt. auth.
- DUBOIS, A. B., see CONNER, E. H., jt. auth.
 —, Oxygen toxicity (review), 473
- DULFANO, M. J., see SEGAL, M. S., jt. auth.
- DUNDEE, J. W., see MOORE, J., jt. auth.
- ECKENHOFF, J. E., *The New England Journal of Medicine* (editorial), 386
- Education**
 postgraduate [editorial], 577
- EDWARDS, G. T., and COBB, S., (current comment), 396
- EGBERT, L. D., and DEAS, T. C., Cause of pain from a pneumatic tourniquet during spinal anesthesia, 287
- EGER, E. I., H. Atropine, scopolamine, and related compounds (review), 365
 —, JOHNSON, E. A., LARSON, C. P., JR., and SEVERINGHAUS, J. W., The uptake and distribution of intravenous ether, 647
 —, see LARSON, C. P., JR., jt. auth.
 —, LARSON, C. P., JR., and SEVERINGHAUS, J. W., The solubility of halothane in rubber, soda lime and various plastics, 356
- EGGERS, G. W. N., JR., see WALKER, J. A., jt. auth.
- Electrocardiogram**: see under Heart
- Electroconvulsive Treatment**
 localized-convulsion in [current comment], 266
- Electroencephalogram**: see Brain
- Electromyograph**: see under Muscles
- Electronarcosis**
 alternating plus direct current [abstract], 164
 combination of direct and alternating current, electrodes and electrode holders [Smith & Cullen], 682
 for surgical patients, clinical experiences [abstract], 145
 stimulus, amplitude, frequency, duration, and wave form in production [abstract], 163
- ELLIOTT, H. W., Mephentermine and cyclopropane-epinephrine arrhythmias in dogs, 762
- Embolism**
 air [current comment], 398
- EMERY, E. R. J., (current comment), 398
- Endotracheal Tube**
 modified disposable [current comment], 716
 swivel-joint [current comment], 716
- Epidural Catheters**
 indwelling, bacteriological culture of [Barreto], 643
- Epinephrine**
 cyclopropane and digitalis synergism with [abstract], 151
 -cyclopropane arrhythmias in dogs, mephentermine and [Elliott], 762
 effect during halothane anesthesia [abstract], 152
 -hydrocarbon disturbance [editorial], 388
 -induced arrhythmias, effect of carbon dioxide and acid-base changes [Ueda & others], 342
 infiltration of, during general anesthesia with halogenated hydrocarbons [abstract], 156
 injection during general anesthesia with halothane [Katz & others], 597
 injection during general anesthesia with trichlorethylene [Matteo & others], 360
- EPSTEIN, R. M., RACKOW, H., LEE, A. S. J., and PAPPER, E. M., Prevention of accidental breathing of anoxic gas mixtures during anesthesia, 1
 —, see SALANTIRE, E., jt. auth.
- Equipment**: see Apparatus and Instruments
- EUREY, D. S., see CHENOWETH, M. B., jt. auth.
- Erythropoiesis**: see under Blood
- Ether**: see Diethyl Ether
- EVERSOLE, U. H., Intrathecal detergents (editorial), 123

- Experiments: see under Research
 Extradural Anesthesia: see under Anesthesia
 Extravasation
 of phenylephrine, cutaneous slough after [current comment], 587
- FABIAN, L. W., see SMITH, S. L., jt. auth.
 FAULCONER, A., JR., A consideration of control in research (editorial), 384
 FEDORUK, S., see DOBKIN, A. B., jt. auth.
 FINCK, A. J., see GRABLE, E., jt. auth.
 FINK, B. R., NGAI, S. H., and HANKS, E. C., The central regulation of respiration during halothane anesthesia, 200
 FINSTER, M., and LEAVITT, S. J., (current comment), 876
 FLACKE, W., and ALPER, M. H., Actions of halothane and norepinephrine in the isolated mammalian heart, 793
- Fluid
 absorption during transurethral prostatic resection [abstract], 152
 various, Ostwald solubility coefficients for anesthetic gases in [Larson & others], 686
 Fluothane: see Halothane
 FOLDES, F. F., BROWN, I. M., and LUNN, J. N., The influence of solvent on the myoneural effects of intramuscular succinylcholine, 213
 —, and McNALL, P. G., Myasthenia gravis: a guide for anesthesiologists (review), 837
 FOREGGER, R., Lavoisier's research on carbon dioxide and its control, 662
 FUKUSHIMA, K., see UEDA, I., jt. auth.
- GADSDEN, R. H., see BAGWELL, E. E., jt. auth.
 —, McCORD, W. M., WOODS, E. F., and BAGWELL, E. E., Gas chromatographic determination of methoxyflurane in blood, 831
 GAFFNEY, T. E., see GOLDBERG, A. H., jt. auth.
 GAIN, E. A. (current comment), 590
 GALASSO, J., (current comment), 716
 GALINDO, A. H., and DAVIS, T. B., Succinylcholine and cardiac excitability, 32
 GALLA, S. J., see SAFAR, P., jt. auth.
- Gamma-Aminobutyrylcholine derivatives: see under Muscle Relaxants
- Gases
 anoxic mixtures, prevention of accidental breathing during anesthesia [Epstein & others], 1
 anesthetic, Ostwald solubility coefficients for, in various fluids and tissues [Larson & others], 686
 chromatographic determination of methoxyflurane in blood [Gadsden & others], 831
- General Anesthesia: see Anesthesia, general
 GLIEDMAN, M. L., SELLERS, R. D., TIMMES, J. J., VESTAL, B. L., and KARLSON, K. E., Pressure-volume relationships of the single lung, 41
 GOLDBERG, A. H., MALING, H. M., and GAFFNEY, T. E., The value of prophylactic digitalization in halothane anesthesia, 207
 GOLDSMITH, H. S., see MARCUS, P. S., jt. auth.
 GOLDSTEIN, R., see VANDERVEEN, J. L., jt. auth.
 GOLHKE, R., see CHENOWETH, M. B., jt. auth.
 GORDON, J. R., see WESTGATE, H. D., jt. auth.
 GRABLE, E., FINCK, A. J., ABRAMS, A. L., and WILLIAMS, J. A., The effect of cyclopropane and halothane on the blood volume in man, 828
 GREENE, L. T., see SALANITRE, E., jt. auth.
 GREENE, N. M., see CHRISTIAN, G., jt. auth.
 GREIFENSTEIN, F. E., see NOE, F. E., jt. auth.
 GROSSKREUTZ, D. C., see SUGIOKA, K., jt. auth.
 GRUBER, C. M., The design of experiments evaluating analgesics (editorial), 711
 —, see STOELTING, V. K., jt. auth.
- HAGAMAN, V. D., see SMITH, S. L., jt. auth.
 HALE, D. E., see MORACA, P. P., jt. auth.
 HALL, K. D., and LOZANO, E., (current comment), 579
 —, and REESER, F. J., JR., (current comment), 126
- Halogenated Hydrocarbons: see also under specific compounds
 general anesthesia with, infiltration of epinephrine during [abstract], 156
 Halothane (Fluothane)
 adrenal medullary discharge under [abstract], 148
 analyzer [current comment], 391
 anesthesia, cardiac excitability in [Smith & others] 766
 anesthesia, central regulation of respiration during [Fink & others], 200
 anesthesia, correlation of EEG patterns with arterial concentrations and clinical signs during [abstract], 147
 anesthesia, EEG patterns during [current comment], 590
 anesthesia, effect of epinephrine during [abstract], 152
 anesthesia, fetal ECG and obstetrical blood loss with [abstract], 140
 anesthesia, value of prophylactic digitalization in [Goldberg & others], 207
 blood and tissue levels in dogs [Chenoweth & others], 101
 circulatory and respiratory actions [Deutsch & others], 631
 concentration in closed and semiclosed circuits during controlled ventilation [Hill & Lowe], 291
 effect on bleeding volume variations in dogs [Marcus & others], 671
 effect on blood volume [Grable & others], 828
 effect on heart [abstract], 156
 digitalization against the negative inotropic effect in dogs [abstract], 150
 -ether ratios, determination by infrared spectrometry [abstract], 143
 injection of epinephrine during general anesthesia with [Katz & others], 597
 and norepinephrine actions in isolated mammalian heart [Flacke & Alper], 793

- solubility in blood and tissue homogenates [abstract], 153; [Larson & others], **349**
- solubility in rubber, soda lime and various plastics [Eger & others], **356**
- and trichlorethylene in a precision system [Dobkin & others], **58**
- uptake by human body [abstract], 161
- vaporizer (Ohio), overdose with [current comment], 715
- vaporizer, valve and bag assembly for [current comment], 584
- HANKS, E. C.**, see **FINK, B. R.**, jt. auth.
- HARLAND, J. H.**, see **DOBKIN, A. B.**, jt. auth.
- HARRISON, J. H.**, see **VANDAM, L. D.**, jt. auth.
- HASELHUBN, D. H.**, (current comment), **589**
- Heart**: see also Arrhythmias; Cardiovascular System
- arrest, effects of intrathecal oxygen on cortical survival during [abstract], 155
- cardiac excitability in ether, cyclopropane and halothane anesthesia [Smith & others], **766**
- effect of halothane on [abstract], 156
- electrocardiogram, fetal, with halothane anesthesia [abstract], 140
- force, effects of local anesthetic agents [abstract], 160
- hemodynamic effects of oxygen inhalation [abstract], 144
- isolated mammalian, action of halothane and norepinephrine in [Flacke & Alper], **793**
- open intracardiac surgery, anesthetic management [Theye & others], **823**
- succinylcholine and cardiac excitability [Galindo & Davis], **32**
- HELLER, M. L.**, and **WATSON, T. R., JR.**, The role of preliminary oxygenation prior to induction with high nitrous oxide mixtures; polarographic P_{aO_2} study, **219**
- Hematocrit**: see Microhematocrit
- Heparin**
- influence on thiopental action in rats [Winters & others], **27**
- Hepatic**: see Liver
- HILL, D. W.**, and **LOWE, H. J.**, Comparison of concentration of halothane in closed and semi-closed circuits during controlled ventilation, **291**
- HINTERNHOFF, M.**, see **SUGIOKA, K.**, jt. auth.
- HOLADAY, D. A.**, and **RATTENBORG, C. C.**, Automatic lung ventilators (review), **493**
- HOLMDAHL, M. H.**, The respiratory care unit (review), **559**
- Homotransplantation**
- renal, anesthetic aspects [Vandam & others], **783**
- Hood**: see under Oxygen
- HORN, B.**, (current comment), **583**
- HOWLAND, W. S.**, see **JACOBS, R. G.**, jt. auth.
- , see **SCHWEIZER, O.**, jt. auth.
- Humidity**
- in inhalational therapy (review) [Tovell & D'Ambruoso], **452**
- Hydrocarbon**
- epinephrine disturbance [editorial], **388**
- Hydrogen Ion Concentration**: see under Blood
- Hypercarbia**: see under Carbon Dioxide
- Hypertension**
- (cerebrospinal fluid), experimental correction of hypercapnic intracranial [Dos & others], **46**
- Hyperventilation**: see Respiration
- Hypnosis**
- activity of chloral hydrate [abstract], 155
- Hypocarbia**: see under Carbon Dioxide
- Hypotension**
- changes in muscle oxygen tension associated with [abstract], 166
- clinical evaluation of sodium nitroprusside [Morara & others], **193**
- Hypothermia**
- and cardiopulmonary bypass, controlled acid-base status with [Carson & Morris], **618**
- effects of experimental subarachnoid perfusion cooling and rewarming on spinal cord [abstract], 139
- immersion, device [current comment], **395**
- Impedance Plethysmography**
- [abstract], 162
- Infants**: see also under names of specific diseases and procedures
- inhalational therapy in pediatrics (review) [Smith], **548**
- Inhalational Anesthesia**: see Anesthesia, inhalational
- Inhalational Therapy**
- acute chemical injury of airway and lungs, six cases [Conner & others], **538**
- aerosols, bronchodilators and mucolytic agents (review) [Lovejoy & Morrow], **460**
- asepsis for (review) [Knudsen & Walter], **507**
- automatic lung ventilators (review) [Holaday & Rattenborg], **493**
- clinical significance of reflexes from the respiratory system (review) [Widdicombe], **434**
- emergency treatment of acute respiratory failure (review) [Spence], **524**
- for chronic lung disease (review) [Segal & others], **513**
- historical background [Barach], **407**
- humidity in (review) [Tovell & D'Ambruoso], **452**
- in pediatrics (review) [Smith], **548**
- intermittent positive pressure breathing (review) [Pierce & Vandam], **478**
- oxygen, catheter, mask, hood and tent (review) [Miller], **445**
- oxygen toxicity (review) [DuBois], **473**
- pulmonary function and tests for ventilatory adequacy (review) [Mitchell], **422**
- respiratory care unit (review) [Holmdahl], **559**
- service (review) [Saklad], **569**
- Injections**: see also under specific agents and drugs
- intrathecal detergents [editorial], **123**
- intrathecal detergents, experimental study [Smith & Conner], **5**
- Intermittent Positive Pressure Breathing**: see under Respiration
- Intrathecal Anesthesia**: see Anesthesia, intrathecal

Intubation

nasotracheal device [current comment], 130

Isotopes: see Radioisotope Tracers

JACOBS, R. G., and HOWLAND, W. S., (current comment), 590

JENICEK, J. A., see MUNSON, W. M., jt. auth.

JENKINS, M. T., see CALE, J. O., jt. auth.

—, and LUHN, N. R., Active management of tetanus based on experiences of anesthesiology department (review), 690

JIMÉNEZ-VÉLEZ, J. L., see COLÓN-YORDÁN, E., jt. auth.

JOHNSON, C. H., see POE, M. F., jt. auth.

JOHNSON, E. A., see EGER, E. I., II, jt. auth.

JONES, R. E., LINDE, H. W., DEUTSCH, S., DRIPPS, R. D., and PRICE, H. L., Hemodynamic actions of diethyl ether in normal man, 299

KARL, W. F., (current comment), 584

KARLSON, K. E., see GLIEDMAN, M. L., jt. auth.

KATZ, R. L., see MATTEO, R. S., jt. auth.

—, MATTEO, R. S., and PAPPER, E. M., The injection of epinephrine during general anesthesia with halogenated hydrocarbons and cyclopropane in man, 597

KEATS, A. S., see PAPADOPOULOS, C. N., jt. auth.

KEÉRI-SZANTO, M., and LEDUC, C., Anesthetic time-dose curves. 4. The influence of respiratory parameters upon intravenous drug requirements during surgical procedures, 231

Kidney

hepatic and renal effects of methoxyflurane in dogs [Cale & others], 248

homotransplantation, anesthetic aspects [Vandam & others], 783

KING, I. J., see BROWN, R. C., jt. auth.

KIRKLIN, J. W., see THEYE, R. A., jt. auth.

KLONMUS, D., see SALANITRE, E., jt. auth.

KNOX, P. R., NORTH, W. C., and STEPHEN, C. R., Methoxyflurane—a clinical evaluation, 238

KUBOTA, Y., SCHWEIZER, H. J., and VANDAM, L. D., Hemodynamic effects of diethyl ether in man, 306

KUNDSIN, R. B., and WALTER, C. W., Asepsis for inhalational therapy (review), 507

LANG, S., see SERKS, K. D., jt. auth.

Largon: see Propiomazine

LARKING, E. W., (current comment), 269

LARSON, C. P., JR., see EGER, E. I., II, jt. auth.

—, EGER, E. I., II, and SEVERINGHAUS, J. W., Ostwald solubility coefficients for anesthetic gases in various fluids and tissues, 686

—, EGER, E. I., II, and SEVERINGHAUS, J. W., The solubility of halothane in blood and tissue homogenates, 349

Laryngoscope

blade, modification [current comment], 394

Lavoisier

research on carbon dioxide and its control [Foregger], 662

LEAVITT, S. J., see FINSTER, M., jt. auth.

LEDUC, C., see KEÉRI-SZANTO, M., jt. auth.

LEE, A. S. J., see EPSTEIN, R. M., jt. auth.

—, see RACHOW, H., jt. auth.

LEFFINGWELL, F. E., (current comment), 719

LENARTZ, H. F., see WINTERS, W. D., jt. auth.

LE TARD, F., and BELLEAU, C. D., (current comment), 267

LEWIS, G., see LORHAN, P. H., jt. auth.

LIDWINA, M., see PLOSS, R. E., jt. auth.

LINDE, H. W., see DEUTSCH, S., jt. auth.

—, see JONES, R. E., jt. auth.

Liver

hepatic and renal effects of methoxyflurane in dogs [Cale & others], 248

LIVINGSTON, M., (current comment), 585

Local Anesthetics: see under names of specific agents; Anesthesia

LOEHNING, R. W., see UEDA, I., jt. auth.

LOPEZ, L., see DAOS, F. G., jt. auth.

LORHAN, P. H., LEWIS, G., BEARDEN, C. R., and AVERBOOK, B. D., Postoperative parotitis, 659

LOVEJOY, F. W., JR., and MORROW, P. E., Aerosols, bronchodilators and mucolytic agents (review), 460

LOWE, H. J., see HILL, D. W., jt. auth.

LOZANO, E., see HALL, K., jt. auth.

LUHN, N. R., see JENKINS, M. T., jt. auth.

Lungs: see also Respiration

acute chemical injury of, experience with six cases [Conner & others], 538

changes in airway resistance following intravenous *d*-tubocurarine [Westgate & others], 65

pulmonary function and tests for ventilatory adequacy (review) [Mitchell], 422

single, pressure-volume relationships [Gliedman & others], 41

ventilators, automatic (review) [Holaday & Rattenborg], 493

LUNN, J. N., see FOLDES, F. F., jt. auth.

McCORD, W. M., see GADSDEN, R. H., jt. auth.

McGOVERN, J. J., see VANDERVEEN, J. L., jt. auth.

McKNIGHT, R. L., see SUGIOKA, K., jt. auth.

McLAUGHLIN, D. F., see BROWN, R. C., jt. auth.

McNALL, P. G., see FOLDES, F. F., jt. auth.

MALING, H. M., see GOLDBERG, A. H., jt. auth.

MALT, R. A., and MULLINAX, P. F., JR., (current comment), 132

MARCUS, P. S., BOYD, T. F., GOLDSMITH, H. H., and RUSCIO, J. F., Bleeding volume variations.

1. Comparison of effects of halothane, ether and thiopental in normal dogs, 671

MARK, L. C., Analeptics: outmoded therapy of barbiturate poisoning (editorial), 713

MARTIN, S. J., Aid to our Far East confreres (editorial), 875

MARX, G. F., and ORKIN, L. R., Complications associated with transurethral surgery, 802

Masks: see also under Apparatus and Instruments; Oxygen

infant, for collection of respiratory samples [current comment], 876

MATTEO, R. S., see KATZ, R. L., jt. auth.

—, KATZ, R. L., and PAPPER, E. M., The injection

- tion of epinephrine during general anesthesia with halogenated hydrocarbons and cyclopropane in man, **360**
- Medical Journals**
share your, **765**
- Medical Literature**
briefs, **4, 15, 26, 40, 50, 85, 91, 172-178, 186, 199, 206, 212, 218, 272, 278-286, 290, 314, 341, 364, 402-406, 433, 444, 451, 477, 506, 512, 523, 593-596, 600, 617, 650, 661, 689, 726-734, 746, 792, 886-894**
palliative approach to newgrowth of knowledge [editorial], **576**
- Meperidine (Demerol):** see also **Preanesthetic Medication**
comparison of analgesic and side effects with parenteral *d*-propoxyphene [Stoelting & others], **21**
- Mephentermine (Wyamine)**
and cyclopropane-epinephrine arrhythmias in dogs [Elliott], **762**
- Mepivacaine (Carbocaine)**
clinical observations on intrathecal use of [Poe & others], **678**
- MERRILL, J. P.,** see **VANDAM, L. D.,** jt. auth.
- Methoxyflurane (Penthrane)**
anesthesia, cardiovascular effects [Walker & others], **639**
blood and tissue levels in dogs [Chenoweth & others], **101**
cardiovascular effects of [Bagwell & Woods], **51**
cardiovascular effects of [abstract], **164**
clinical evaluation [Knox & others], **238**
effect of electromyogram, neuromuscular transmission, and spinal reflex [abstract], **158**
hepatic and renal effects of in dogs [Cale & others], **248**
in blood, gas chromatographic determination [Gadsden & others], **831**
inhalation in dogs, blood levels and cardiovascular dynamics during [Bagwell & others], **243**
-nitrous oxide anesthesia, effect on arterial *pH*, oxygen saturation, P_{aCO_2} and plasma bicarbonate [Dobkin & Song], **601**
- MEZISTRANI, J.,** see **YOUNG, T. M.,** jt. auth.
- Microhematocrit**
serial determinations [current comment], **134; 587**
- MILLER, E. V.,** (current comment), **581**
- MILLER, W. F.,** Oxygen therapy. Catheter, mask, hood and tent (review), **445**
- MILLIGAN, D.,** see **CALESNICK, B.,** jt. auth.
- MITCHELL, R. A.,** Pulmonary function and tests for ventilatory adequacy (review), **422**
- MOFFITT, E. A.,** see **THEYE, R. A.,** jt. auth.
- Monitors**
continuous, of respiration [current comment], **585**
during anesthesia [current comment], **135**
- MOORE, J.,** and **DUNDEE, J. W.,** (current comment), **881**
- MORACA, P. P.,** **BITTE, E. M.,** **HALE, D. E.,** **WASMUTH, C. E.,** and **POUTASSE, E. F.,** Clinical evaluation of sodium nitroprusside as a hypotensive agent, **193**
- Morphine:** see also **Preanesthetic Medication**
analgesic action of [abstract], **154**
effects on respiratory response curve [abstract], **139**
-induced respiratory depression, specific and nonspecific antagonism of [Papadopoulos & Keats], **86**
- MORRIS, L. E.,** see **CARSON, S. A. A.,** jt. auth.
—, see **YOUNG, T. M.,** jt. auth.
- MORROW, P. E.,** see **LOVEJOY, F. W., JR.,** jt. auth.
- Mucolytic Agents**
aerosols and bronchodilators (review) [Lovejoy & Morrow], **460**
- MULLINAX, P. F., JR.,** see **MALT, R. A.,** jt. auth.
- MUNSON, W. M.,** and **JENICEK, J. A.,** Effect of anesthetic agents on patients receiving reserpine therapy, **741**
- MURRAY, J. E.,** see **VANDAM, L. D.,** jt. auth.
- Muscle**
effect of methoxyflurane on electromyogram, neuromuscular transmission and spinal reflex [abstract], **158**
effects of general anesthetics on contractile responses of rabbit aortic strips [Price & Price], **16**
electromyograph in study of ventilation under spinal anesthesia [abstract], **165**
influence of solvent on myoneural effects of intramuscular succinylcholine [Foldes & others], **213**
isolated human, effects of neostigmine [abstract], **160**
neuromuscular effects of gamma-aminobutyrylcholine derivatives [abstract], **146**
oxygen tension, changes associated with hypotension and vasopressor therapy [abstract], **166**
- Muscle Relaxants:** see also **Succinylcholine, Curare**
neuromuscular effects of gamma-aminobutyrylcholine derivatives [abstract], **146**
- Myasthenia Gravis**
guide for anesthesiologists (review) [Foldes & McNall], **837**
- NAGLE, D. R.,** (current comment), **136**
- NAHAS, G. G.,** see **Dos, S. J.,** jt. auth.
- Narcosis:** see **Electronarcosis**
- Narcotics:** see under names of specific compounds; **Meperidine; Morphine; Phenazocine**
- Nebulizer**
for anesthetic system [current comment], **583**
- Needles**
epidural, holder for [current comment], **880**
- Neostigmine**
as curare antagonist [Wescott & Bendixen], **324**
effects on isolated human muscle [abstract], **160**
- Neo-Synephrine:** see **Phenylephrine**
- Nerve**
effect of methoxyflurane on electromyogram, neuromuscular transmission and spinal reflex [abstract], **158**

- influence of solvent on myoneural effects of intramuscular succinylcholine [Foldes & others], **213**
- neuromuscular effect of gamma-aminobutyrylcholine derivatives [abstract], **146**
- New England Journal of Medicine* [editorial], **386**; [correction], **596**
- NGAI, S. H., see FINK, B. R., jt. auth.
- Nitrous Oxide
- methoxyflurane anesthesia, effect on arterial pH, oxygen saturation, P_{aCO_2} and plasma bicarbonate [Dobkin & Song], **601**
 - oxygen "flush" system [current comment], **129**
 - preliminary oxygenation prior to induction with high nitrous oxide mixtures [Heller & Watson], **219**
 - uptake and excretion of subanesthetic concentration of [Salanitre & others], **814**
- NOE, F. E., SEKINO, E., and GREIFENSTEIN, F. E., Effect of buffer amine infusion on certain blood constituents in hypercarbia and hypocarbia, **651**
- Norepinephrine
- and halothane actions in isolated mammalian heart [Flacke & Alper], **793**
- NORTH, W. C., see KNOX, P. R., jt. auth.
- Nose
- obstruction of nasotracheal tube by impacted nasal secretions [current comment], **589**
- NUNN, J., (current comment), **718**
- Obstetrics
- blood loss and fetal ECG with halothane anesthesia [abstract], **140**
- Obstruction
- of nasotracheal tube by impacted nasal secretions [current comment], **589**
- ORKIN, L. R., see MARX, G. F., jt. auth.
- Ostwald Solubility Coefficients
- for anesthetic gases in various fluids and tissues [Larson & others], **686**
- Oxygen
- and carbon dioxide tensions as factors in respiration after apnea from hyperventilation [Sugioka & others], **776**
 - inhalation, hemodynamic effects of [abstract], **144**
 - intrathecal, effects of cortical survival during cardiac arrest [abstract], **155**
 - local anesthetic toxicity modified by [Daos & others], **755**
 - muscle tension, changes associated with hypotension and vasopressor therapy [abstract], **166**
 - nitrous oxide "flush" system [current comment], **129**
 - preliminary oxygenation prior to induction with high nitrous oxide mixtures [Heller & Watson], **219**
 - saturation (arterial), effect of methoxyflurane-nitrous oxide anesthesia on [Dobkin & Song], **601**
 - therapy, catheter, mask, hood and tent (review) [Miller], **445**
 - toxicity (review) [DuBois], **473**
- Oxygenator
- and hypothermia, controlled acid-base status with [Carson & Morris], **618**
- Pain
- cause from pneumatic tourniquet during spinal anesthesia [Egbert & Deas], **287**; [current comment], **881**
 - relief, analgesic action of propiomazine and morphine [abstract], **154**
 - relief, comparison of parenteral *d*-propoxyphene and meperidine [Stoelting & others], **21**
- PAPADOPOULOS, C. N., and KEATS, A. S., Specific and nonspecific antagonism of morphine-induced respiratory depression, **86**
- PAPPER, E. M., see DOS, S. J., jt. auth.
- , see EPSTEIN, R. M., jt. auth.
- , see KATZ, R. L., jt. auth.
- , see MATTEO, R. S., jt. auth.
- PEREIRA, M. D., see SERKS, K. D., jt. auth.
- PARKS, C. R., see CALE, J. O., jt. auth.
- Parotitis
- postoperative [Lorhan & others], **659**
- PEARCY, W. C., Circulatory and electroencephalographic effects of extreme ether anesthesia in dogs, **605**
- Pediatrics: see under Children; Infants
- PENDER, J. W., Postgraduate education (editorial), **577**
- , Unjustified distractions (editorial), **265**
- Penthrane: see Methoxyflurane
- Pentothal: see Thiopental
- Phenazocine (Prinadol)
- antidiuretic effect of [Calesnick & Milligan], **81**
- Phenylephrine
- cutaneous slough after extravasation of [current comment], **587**
- PIERCE, E. C., JR., and VANDAM, L. D., Intermittent positive pressure breathing (review), **478**
- Plasma: see also under Blood
- volume, measurement with radioisotope tracers [abstract], **138**
- Plastics
- solubility in halothane [Eger & others], **356**
- Plethysmography: see Impedance Plethysmography
- PLOSS, R. E., BARBEE, W. H., and LIDWINA, M., (current comment), **395**
- Pneumatic Tourniquet
- cause of pain from during spinal anesthesia [Egbert & Deas], **287**; [current comment], **881**
- POE, M. F., DORNETTE, W. H. L., and JOHNSON, C. H., Clinical observations on the intrathecal use of mepivacaine, **678**
- Poisoning
- barbiturate, analeptics outmoded therapy of [editorial], **713**
- Polarograph: see under Oxygen
- POLLAK, H., (current comment), **131**
- Positive Pressure Breathing: see under Respiration

Potassium

levels, acid-base balance and massive blood replacement [Schweizer & Howland], 735

POTTER, G. J., (current comment), 395

POUTASSE, E. F., see MORACA, P. P., jt. auth.

Preanesthetic Medication

dose-effect study in children [Rackow & Salanitro], 747

evaluation [abstract], 141

synergistic and antagonistic effects on general anesthesia in mice [Carson & Domino], 187

Premedication: see Preanesthetic Medication; under Anesthesia; Surgery; names of specific drugs

Preoperative Medication: see Preanesthetic Medication

PRICE, H. L., see DEUTSCH, S., jt. auth.

—, see JONES, R. E., jt. auth.

—, see PRICE, M. L., jt. auth.

PRICE, M. L., and PRICE, H. L., Effects of general anesthetics on contractile responses of rabbit aortic strips, 16

Prinadol: see Phenazocine

Propiomazine (Largon)

analgesic action of [abstract], 154

d-Propoxyphene

parenteral, comparison of analgesic and side effects with meperidine [Stoelting & others], 21

Prostate

resection, fluid absorption during [abstract], 152

Pulmonary: see under Lungs; Respiration

RACKOW, H., see EPSTEIN, R. M., jt. auth.

—, see SALANITRE, E., jt. auth.

—, and SALANITRE, E., A dose-effect study of preoperative medication in children, 747

—, SALANITRE, E., and LEE, A. S. J., (current comment), 129

Radiation

effects of anesthesia on irradiated animals [Young & others], 74

exposure [current comment], 267

Radioisotope Tracers

Fe-59 and Cr-51 for simultaneous measurement of plasma and red cell volume and index of erythropoieses [abstract], 138

RATTENBORG, C. C., see HOLADAY, D. A., jt. auth.

RAVIN, M. B., and SCHWARTZ, H., (current comment), 269

Red Cells: see under Blood

REESER, F. J., JR., see HALL, K. D., jt. auth.

Reflexes

spinal, effect of methoxyflurane [abstract], 158

Refsum's Disease

[current comment], 269

Renal: see Kidneys

Reprints

[current comment], 881

request for, 298

Research

consideration of control in [editorial], 384

design of experiments evaluating analgesics [editorial], 711

Reserpine

therapy, effect of anesthetic agents on patients receiving [Munson & Jenicke], 741

Respiration

actions of halothane [Deutsch & others], 631

after apnea from hyperventilation, oxygen and carbon dioxide tensions as factors in [Sugioka & others], 776

calibration of Wright spirometer [current comment], 126; [current comment], 718

carbon dioxide generator for stimulating [current comment], 132

central regulation during halothane anesthesia [Fink & others], 200

clinical significance of reflexes from respiratory system (review) [Widdicombe], 434

concentration of halothane in closed and semi-closed circuits during controlled ventilation [Hill & Lowe], 291

continuous monitoring [current comment], 585

continuously recording ventimeter [current comment], 582

depression, morphine-induced, specific and non-specific antagonism of [Papadopoulos & Keats], 86

effect of obstruction on brain size and motion [abstract], 142

effects of morphine and curare on response curve [abstract], 139

emergency treatment of acute respiratory failure (review) [Spence], 524

experimental correction of hypercapnic intracranial hypertension [Dos & others], 46

infant mask for collection of respiratory samples [current comment], 876

influence of parameters upon intravenous drug requirements during surgical procedures, anesthetic time-dose curves [Keéri-Szanto & Leduc], 231

intermittent positive pressure breathing (review) [Pierce & Vandam], 478

measurement of inspiratory force in anesthetized dogs [Bendixen & Bunker], 315

pressure-volume relationships of single lung [Gliedman & others], 41

prevention of accidental breathing of anoxic gas mixtures during anesthesia [Epstein & others], 1

pulmonary function and tests for ventilatory adequacy (review) [Mitchell], 422

respiratory care unit (review) [Holmdahl], 559

study under spinal anesthesia, electromyograph in [abstract], 165

Respirators: see Ventilators

ROBERTS, A. P., and VANDAM, L. D., (current comment), 587

ROBERTSON, D. N., see CHENOWETH, M. B., jt. auth.

ROBINSON, A., DENSON, J. S., and SUMMERS, F. W., (current comment), 391

Rubber

solubility of halothane in [Eger & others], 356

RUSCIO, J. F., see MARCUS, P. S., jt. auth.

- SAFAR, P., and GALLA, S. J., (current comment), 715
- Safety
[editorial], 124
- SAKLAD, M., An inhalational therapy service (review), 569
- SALANITRE, E., see RACHOW, H., jt. auth.
- , and RACKOW, H., Changing trends in the anesthetic management of the child with cleft lip-palate malformation, 610
- , RACKOW, H., GREENE, L. T., KLONYMUS, D., and EPSTEIN, R. M., Uptake and excretion of subanesthetic concentrations of nitrous oxide in man, 814
- SATILARO, A. J., see BANNISTER, W. K., jt. auth.
- SCHOIZ, S., (current comment), 135; 877
- SCHWARTZ, H., see RAVIN, M. B., jt. auth.
- SCHWEIZER, H. J., see KUBOTA, Y., jt. auth.
- SCHWEIZER, O., and HOWLAND, W. S., Potassium levels, acid-base balance and massive blood replacement, 735
- Scolopamine
atropine, and related compounds (review) [Eger], 365
intravenous, during cyclopropane-succinylcholine anesthesia [Colón-Yordán & Jiménez-Vélez], 333
- SEGAL, M. S., TRAVERSE, N., and DULFANO, M. J., Inhalational therapy for chronic lung disease (review), 513
- SEKINO, E., see NOE, F. E., jt. auth.
- SELLERS, R. D., see GLIEDMAN, M. I., jt. auth.
- SERKS, K. D., LANG, S., and PAREIRA, M. D., (current comment), 134
- SEVERINGHAUS, J. W., (current comment), 582
- , see EGER, E. I., II, jt. auth.
- , see LARSON, C. P., JR., jt. auth.
- Side Effects: see under specific agents and drugs
- Skin
cutaneous slough after extravasation of phenylephrine [current comment], 587
- Slough
cutaneous, after extravasation of phenylephrine [current comment], 587
- SMITH, R. A., and CONNER, E. H., Experimental study of intrathecal detergents, 5
- SMITH, R. H., and CULLEN, S. C., Electrocortical by combination of direct and alternating current. 3. Electrodes and electrode holders, 682
- SMITH, R. M., Inhalational therapy in pediatrics (review), 548
- SMITH, S. L., WEBB, W. R., FABIAN, L. W., and HAGAMAN, V. D., Cardiac excitability in ether, cyclopropane and halothane anesthesia, 766
- SNOW, J. C., (current comment), 394
- Soda Lime
solubility in halothane [Eger & others], 356
- Sodium Nitroprusside
clinical evaluation as hypotensive agent [Moraca & others], 193
- SONG, Y., see DOBKIN, A. B., jt. auth.
- Spectrometry
infrared, determination of halothane-ether ratios by [abstract], 143
- SPENCE, M., The emergency treatment of acute respiratory failure (review), 524
- Spinal Anesthesia: see Anesthesia, spinal
- Spinal Cord
effects of experimental subarachnoid perfusion cooling and rewarming on [abstract], 139
reflexes, effect of methoxyflurane [abstract], 158
- Spirometer
Wright, calibration [current comment], 126; [current comment], 718
- STEPHEN, C. R., see KNOX, P. R., jt. auth.
- Sterilization (Bacterial): see Asepsis
- STOELTING, R. K., see STOELTING, V. K., jt. auth.
- STOELTING, V. K., STOELTING, R. K., and GRUBER, C. M., Comparison of analgesic and side effects of parenteral *d*-propoxyphene and meperidine, 21
- STRUNK, H. A., (current comment), 271
- Succinylcholine
and cardiac excitability [Galindo & Davis], 32
-cyclopropane anesthesia, intravenous atropine and scopolamine during [Colón-Yordán & Jiménez-Vélez], 333
intramuscular, influence of solvent on myoneural effects [Foldes & others], 213
- SUGIOKA, K., DAVIS, D. A., HINTERHOFF, M. MC-KNIGHT, R. L., and GROSSKREUTZ, D. C., Oxygen and carbon dioxide tensions as factors in respiration after apnea from hyperventilation, 776
- SUMMERS, F. W., see ROBINSON, A., jt. auth.
- Surgery: see also under specific procedures and organs
anesthetic time-dose curves, influence of respiratory parameters upon intravenous drug requirements during [Keéri-Szanto & Ledue], 231
cleft lip-palate malformation, anesthetic management of child with [Salanitro & Rackow], 610
clinical experience with electronarcosis for [abstract], 145
open intracardiac, anesthetic management [Theye & others], 823
prostatic resection, fluid absorption during [abstract], 152
renal homotransplantation, anesthetic aspects [Vandam & others], 783
transurethral, complication associated with [Marx & Orkin], 802
- Tent: see under Oxygen
- Tetanus
active management based on experiences of anesthesiology department (review) [Jenkins & Luhn], 690
- THAM
effects of, used with normal acid-base balance and with respiratory acidosis and alkalosis during anesthesia [abstract], 158

- Therapy: see also under specific procedures and agents
 analeptics, outmoded in barbiturate poisoning [editorial], 713
 inhalational: see Inhalational Therapy
- THEYE, R. A., MOFFITT, E. A., and KIRKLIN, J. W., Anesthetic management during open intracardiac surgery, 823
- Thiopental (Pentothal)
 action in rats, influence of corn oil, heparin and albumin [Winters & others], 27
 effect on bleeding volume variations in dogs [Marcus & others], 671
 reaction to [current comment], 271
- THOMAS, E. T., (current comment), 718
- TIMMES, J. J., see GLIEDMAN, M. L., jt. auth.
- Tissue
 homogenates, solubility of halothane in [abstract], 153; [Larson & others], 349
 levels of ether, chloroform, halothane and methoxyflurane in dogs [Chenoweth & others], 101
 Ostwald solubility coefficients for anesthetic gases in [Larson & others], 686
- Tourniquet: see Pneumatic Tourniquet
- TOVELL, R. M., Safety (editorial), 124
 —, and D'AMBRUOSO, D. C., Humidity in inhalational therapy (review), 452
- Toxicity
 local anesthetic, modified by oxygen and combination of agents [Daos & others], 755
- Tracers: see Radioisotope Tracers
- Trachea
 obstruction of nasotracheal tube by impacted nasal secretions [current comment], 589
- Transfusion: see Blood, transfusion
- Transurethral Surgery
 complication associated with [Marx & Orkin], 802
- Trauma: see under specific diseases and organs
- TRAVERSE, N., see SEGAL, M. S., jt. auth.
- Trichlorethylene
 and halothane in a precision system [Dobkin & others], 58
 injection of epinephrine during general anesthesia with [Matteo & others], 360
- Tris (hydroxymethyl)-Aminomethane: see THAM *d*-Tubocurarine
 intravenous, changes in airway resistance following [Westgate & others], 65
- UEDA, I., FUKUSHIMA, K., BALLINGER, C. M., and LOEHNING, R. W., Epinephrine-induced arrhythmias: effect of carbon dioxide and acid-base changes, 342
- Valves: see under Apparatus and Instruments
- VAN BERGEN, F. H., see WESTGATE, H. D., jt. auth.
- VANDAM, L. D., The hydrocarbon-epinephrine disturbance in man (editorial), 388
 —, A palliative approach to the newgrowth of medical knowledge (editorial), 576
- , HARRISON, J. H., MURRAY, J. E., and MERRILL, J. P., Anesthetic aspects of renal homotransplantation in man, 783
 —, see KUBOTA, Y., jt. auth.
 —, see PIERCE, E. C., JR., jt. auth.
 —, see ROBERTS, A. P., jt. auth.
- VANDERVEEN, J. L., MCGOVERN, J. J., BUNKER, J. P., and GOLDSTEIN, R., Effects of anesthesia on hemostatic mechanisms in man, 92
- VAN POZNAK, A., (current comment), 717
- Vaporizers
 halothane (Ohio), overdose with [current comment], 715
 halothane, valve and bag assembly for [current comment], 584
 trichlorethylene in a precision system [Dobkin & others], 58
- Vasopressors
 therapy, changes in muscle oxygen tension associated with [abstract], 166
- Ventilation: see Respiration
- Ventilators
 automatic lung (review) [Holaday & Rattenborg], 493
- Ventimeter
 continuously recording [current comment], 582
- VESTAL, B. L., see GLIEDMAN, M. L., jt. auth.
- VIRTUE, R. W., see DAOS, F. G., jt. auth.
- Vomiting
 and aspiration during anesthesia (review) [Banister & Sattilaro], 251; [current comment], 718
- WALKER, J. A., EGGERS, G. W. N., JR., and ALLEN, C. R., Cardiovascular effects of methoxyflurane anesthesia in man, 639
- WALTER, C. W., see KUNDSIN, R. B., jt. auth.
- WASMUTH, C. E., see MORACA, P. P., jt. auth.
- WATSON, T. R., JR., see HELLER, M. L., jt. auth.
- WEBB, W. R., see SMITH, S. L., jt. auth.
- WEISS, S. Z., (current comment), 717
- WESCOTT, D. A., and BENDIXEN, H. H., Neostigmine as a curare antagonist. A clinical study, 324
- WESTGATE, H. D., GORDON, J. R., and VAN BERGEN, F. H., Changes in airway resistance following intravenous administered *d*-tubocurarine, 65
- WIDDICOMBE, J. G., Clinical significance of reflexes from the respiratory system (review), 434
- WILLIAMS, J. A., see GRABLE, E., jt. auth.
- WINTERS, W. D., CONRAD, A., LENARTZ, H. F., and BLASKOVICS, J. B., Influence of corn oil, heparin and albumin on thiopental action in rats, 27
- WOODS, E. F., see BAGWELL, E. E., jt. auth.
 —, see GADSDEN, R. H., jt. auth.
- Wright Spirometer: see under Spirometer
- YOUNG, T. M., CARSON, S. A. A., MEZISTRANO, J., and MORRIS, L. E., Effects of anesthesia on irradiated animals, 74