



Frederick Mihm, M.D.

Professor of Anesthesiology, Perioperative and Pain Medicine (Critical Care)

CLINICAL OFFICE (PRIMARY)

- **Anesthesia**

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Bio

BIO

I had my eye on Critical Care Medicine since I left medical school. I found myself drawn to those life-threatening clinical scenarios where there is an opportunity to do the most profound act in medicine: to save a life. I came to Stanford because I saw something special; a multidisciplinary approach that contrasted with 'silo' critical care that I saw elsewhere. The opportunity to work side by side with Medicine, EM, and Neurology colleagues, and to train fellows with diverse backgrounds is scintillating and humbling at the same time. Learning from colleagues outside my specialty in a positive, upbeat environment, is the greatest gift that Stanford has given me.

I particularly relish the 'hands-on' nature of Critical Care practice, and the opportunity to appreciate the particulars of each patient that make them unique and their puzzles that must be solved. I enjoy the physiologic monitoring and thinking that is central to our practice and am especially interested in pushing the envelope of education and training of our fellows to perform bedside procedures with real expertise and low risk. I have a goal to create a high-quality educational video for every procedure in Critical Care, so that the 'timeout' before a procedure includes, not only the identification of the patient, side, etc, but also a review of how that procedure is to be done. Reducing the risks of invasive procedures is a core strategy for providing the best care of critically ill patients. Knowing how to make sense of physiologic information in real-time is equally essential.

Also, since medical school, I have been enchanted by endocrinologic disorders and as an Anesthesiologist/Intensivist, founded the first Perioperative Home at Stanford for patients with pheochromocytoma. Having cared for > 300 of these patients over the years in the clinic, ward, OR, ICU, I appreciate the expertise one can acquire by seeing a large volume of patients with a rare condition. Each patient is their own story and identifying that is very important.

I have also been heavily involved with Global Health missions all over the world (Central/South America, Africa, Southeast Asia, Europe, Middle East) and have spent nearly 2 years cumulatively on over 50 trips in this endeavor: to care, to teach, to equip. While helping improve a system of healthcare is important, I do not overlook the impact of changing the trajectory of a single life.

CLINICAL FOCUS

- Anesthesia
- Critical Care Medicine
- Pheochromocytoma
- Regional Anesthesia

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine

ADMINISTRATIVE APPOINTMENTS

- Associate Medical Director, Intensive Care Units, Stanford University Medical Center, (1979-2005)
- Anesthesia CCM Fellowship Program Director, Dept of Anesthesiology, Perioperative and Pain Medicine, (1983-1993)
- Co-Director, Intensive Care Units, Stanford University Medical Center, (2005-2020)
- Anesthesia CCM fellowship Program Director, Stanford University Medical Center, (2005-2013)
- Chief, Division of CCM, Dept of Anesthesiology, Perioperative and Pain Medicine, (2005-2012)
- Chief, Division of CCM, Dept of Anesthesiology, Perioperative and Pain Medicine, (2015-2019)

HONORS AND AWARDS

- Kevin Mallott Humanitarian Award, Stanford Healthcare (2025)
- Ellis N. Cohen, M.D. Achievement Award, Department of Anesthesiology, Perioperative and Pain Medicine (2019)
- Good Samaritan of the Year, Good Samaritan International (2015)

PROFESSIONAL EDUCATION

- Medical Education: St Louis University School of Medicine (1974) MO
- Internship: USC/LAC Medical Center (1975) CA
- Residency: UCI Medical Center (1976) CA
- Residency: Stanford University Medical Center (1978) CA
- Fellowship: Stanford University Medical Center (1978) CA
- Fellowship: Massachusetts General Hospital (1979) MA
- Board Certification: Anesthesia, American Board of Anesthesiology (1981)
- Board Certification: Critical Care Medicine, American Board of Anesthesiology (1987)

COMMUNITY AND INTERNATIONAL WORK

- Anesthesia for Exotic Animal Species
- Overseas Medical Outreach

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Mihm's two areas of research interest involve cardiorespiratory monitoring techniques and applications and the perioperative management of patients with pheochromocytoma.

CLINICAL TRIALS

- Emollient Therapy for Severe Acute Malnutrition, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Anesthesia (Fellowship Program)
- Critical Care Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Awake Flexible Scope Intubation in Critically Ill Patients With Physiologically Difficult Airways: A Prospective, Observational Case Series.** *Critical care explorations*
Camiré, D. C., Ramaswamy, T. S., Chu, L. F., Mihm, F. G.
2026; 8 (4): e1394
- **A Bridge Through the (Ventricular Tachycardia) Storm: The Role of Continuous Stellate Ganglion Blockade-A Case Report.** *A&A practice*
Lim, M. A., Kim, R. K., Bombardieri, A. M., Mihm, F.
2025; 19 (7): e02022
- **Stellate ganglion block catheter for paroxysmal sympathetic hyperactivity: calming the 'neuro-storm'.** *Regional anesthesia and pain medicine*
Lee, M. C., Bartuska, A., Chen, J., Kim, R. K., Jaradeh, S., Mihm, F.
2023
- **Pheochromocytoma crisis precipitated by dexamethasone with profound lactic acidosis, but without severe hypertension.** *Endocrinology, diabetes & metabolism case reports*
Lin, D., Madhok, J., Bouhenguel, J., Mihm, F.
2022; 2022
- **ACUTE ABDOMINAL COMPARTMENT SYNDROME DURING COLONOSCOPY IN A WESTERN LOWLAND GORILLA (GORILLA GORILLA GORILLA).** *Journal of zoo and wildlife medicine : official publication of the American Association of Zoo Veterinarians*
Payne, T., Chen, M., Mihm, F., Mutlow, A.
2022; 53 (3): 621-627
- **Hydroxocobalamin to treat refractory vasoplegia following phaeochromocytoma resection in a child.** *Anaesthesia reports*
Giustini, A. J., Rowe, E. V., Perez, F. D., Mihm, F. G.
2022; 10 (2): e12201
- **A case report of an open aortic valve replacement followed by open adrenalectomy in a patient with symptomatic pheochromocytoma and critical aortic stenosis.** *Journal of cardiothoracic surgery*
Feinstein, I., Lee, T., Khan, S., Raleigh, L., Mihm, F.
2021; 16 (1): 282
- **Rethinking sedation during prolonged mechanical ventilation for COVID-19 respiratory failure.** *Anesthesia and analgesia*
Madhok, J., Mihm, F. G.
2020
- **Catecholamine-induced cerebral vasospasm and multifocal infarctions in pheochromocytoma.** *Endocrinology, diabetes & metabolism case reports*
Madhok, J. n., Kloosterboer, A. n., Venkatasubramanian, C. n., Mihm, F. G.
2020; 2020
- **Retrospective Analysis of Peri-Intubation Hypoxemia During the Coronavirus Disease 2019 Epidemic Using a Protocol for Modified Airway Management.** *A&A practice*
Madhok, J. n., Vogelsong, M. A., Lee, T. C., Wilson, J. G., Mihm, F. n.
2020; 14 (14): e01360
- **Traumatic Pneumothorax Presenting as a Subcutaneous "Airball".** *American journal of respiratory and critical care medicine*
Madhok, J. n., Madani, M. H., Leung, A. N., Mihm, F. n.

2020

- **Another Role for Angiotensin II?: Vasopressin-Refractory Shock After Pheochromocytoma Resection: A Case Report.** *A&A practice*
Hylton, D. J., Minot, P. R., Mihm, F. G.
2019
- **Needle-guided ultrasound technique for axillary artery catheter placement in critically ill patients: A case series and technique description.** *Journal of critical care*
Htet, N., Vaughn, J., Adigopula, S., Hennessey, E., Mihm, F.
2017; 41: 194-197
- **Transcription Restores DNA Repair to Heterochromatin, Determining Regional Mutation Rates in Cancer Genomes** *CELL REPORTS*
Zheng, C. L., Wang, N. J., Chung, J., Moslehi, H., Sanborn, J. Z., Hur, J. S., Collisson, E. A., Vemula, S. S., Naujokas, A., Chiotti, K. E., Cheng, J. B., Fassihi, H., Blumberg, et al
2014; 9 (4): 1228-1234
- **Malignant Pheochromocytoma Presenting as Incapacitating Bony Pain** *PAIN PRACTICE*
Tan, M., Camargo, C. A., Mojtahed, A., Mihm, F.
2012; 12 (4): 286-289
- **Ultrasound-Guided Internal Jugular Vein Cannulation** *NEW ENGLAND JOURNAL OF MEDICINE*
Movahed, M.
2010; 363 (8): 796
- **The Effects of Respiratory Failure on Delivery in Pregnant Patients With H1N1 2009 Influenza** *OBSTETRICS AND GYNECOLOGY*
Jafari, A., Langen, E. S., Aziz, N., Blumenfeld, Y. J., Mihm, F., Druzin, M. L.
2010; 115 (5): 1033-1035
- **Catecholamine-Secreting Paragangliomas: Recent Progress in Diagnosis and Perioperative Management** *SKULL BASE-AN INTERDISCIPLINARY APPROACH*
Colen, T. Y., Mihm, F. G., Mason, T. P., Roberson, J. B.
2009; 19 (6): 377-385
- **Unexpected findings during the anesthetic management of a patient with a cardiac paraganglioma** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*
Soran, P. D., Akram, S., Mihm, F., Fleischmann, D., Reitz, B., van der Starre, P.
2008; 22 (4): 570-572
- **Blood pressure control with fenoldopam during excision of a pheochromocytoma** *ANESTHESIOLOGY*
Cooper, Z. A., Mihm, F. G.
1999; 91 (2): 558-560
- **Pheochromocytoma: decreased perioperative mortality** *Anesthesiology Clinics of North America*
Mihm, F.
1998; 16 (3): 645-62
- **SHORT-ACTING BETA-ADRENERGIC-BLOCKADE AS INITIAL-DRUG THERAPY IN PHEOCHROMOCYTOMA** *CRITICAL CARE MEDICINE*
Mihm, F. G., Sandhu, J. S., Brown, M. D., Rosenthal, M. H.
1990; 18 (6): 673-674
- **PULSE OXIMETRY AND END-TIDAL CO2 MONITORING OF AN ADULT ASIAN ELEPHANT** *JOURNAL OF ZOO ANIMAL MEDICINE*
Mihm, F. G., MACHADO, C., Snyder, R.
1988; 19 (3): 106-109
- **Functional Suppression of a Prolactinoma by a Dopamine-Secreting Paraganglioma.** *JCEM case reports*
Fox, T., Needleman, L., Bharani, K. L., Mihm, F., Annes, J. P., Chang, J. J.
2025; 3 (6): luaf080
- **Awake Flexible Scope Intubation (AFSI) in Critically Ill Patients with Physiologically Difficult Airways**
Camire, D., Ramaswamy, T., Mihm, F.
LIPPINCOTT WILLIAMS & WILKINS.2024: 13-15

- **Cannabinoid hyperemesis and pheochromocytoma hypertensive urgency: a case report.** *Journal of medical case reports*
Arendash, J. M., Chiu, C., Wang, J., Mihm, F.
2024; 18 (1): 161
- **Prehospital Critical Care Blood Product Administration** *DIMENSIONS OF CRITICAL CARE NURSING*
Hough, R., Cox, S., Chimelski, E., Mihm, F. G., Tobin, J. M.
2023; 42 (6): 333-338
- **Rare Presentation of Paroxysmal High B-Pee.** *Hypertension (Dallas, Tex. : 1979)*
Bradshaw, C., Abounasr, A., Brunsing, R. L., Kao, C. S., Reejhsinghani, R., Annes, J. P., Chung, B. I., Mihm, F., Bhalla, V.
2023
- **Evaluating awake prone positioning in acute hypoxemic respiratory failure through the Leaf patient monitoring system : a feasibility study**
Shannon, B., Teixeira, M., Empson, S., Mihm, F.
EUROPEAN RESPIRATORY SOC JOURNALS LTD.2021
- **Atypical Fibroxanthoma in a 13-Year-Old Guatemalan Girl with Xeroderma Pigmentosum.** *Pediatric dermatology*
Chappell, A. G., Chase, E. P., Chang, B., Cunningham, E., Mihm, F., Calame, A., Fudem, G., Cunningham, B.
2016; 33 (3): e228-9
- **Anesthetic management of a parturient with VACTERL association undergoing Cesarean delivery** *CANADIAN JOURNAL OF ANESTHESIA- JOURNAL CANADIEN D ANESTHESIE*
Hilton, G., Mihm, F., Butwick, A.
2013; 60 (6): 570-576
- **Propofol infusion syndrome resuscitation with extracorporeal life support: a case report and review of the literature.** *Annals of intensive care*
Mayette, M., Gonda, J., Hsu, J. L., Mihm, F. G.
2013; 3 (1): 32-?
- **Questioning Diuretic Use in Acute Negative-pressure Pulmonary Edema** *ANESTHESIOLOGY*
Maxwell, B. G., Mihm, F. G.
2011; 114 (2): 461-461
- **Ultrasound-Guided Internal Jugular Vein Cannulation** *NEW ENGLAND JOURNAL OF MEDICINE*
Maslove, D., Mihm, F.
2010; 363 (8): 796-796
- **Combined endovascular and open operative approach for mycotic carotid aneurysm** *JOURNAL OF VASCULAR SURGERY*
Tsai, T. C., Barot, N., Dalman, R., Mihm, F.
2010; 51 (6): 1514-1516
- **A Hemodynamic Profile for Consciousness During Cardiopulmonary Resuscitation** *ANESTHESIA AND ANALGESIA*
Tobin, J. M., Mihm, F. G.
2009; 109 (5): 1598-1599
- **Determination of the site of tracheal tube impingement during nasotracheal fiberoptic intubation** *Euroanaesthesia 2004 Meeting*
Marfin, A. G., Iqbal, R., Mihm, F., Popat, M. T., Scott, S. H., Pandit, J. J.
WILEY-BLACKWELL PUBLISHING, INC.2006: 646-50
- **Measurement of cardiac output by transpulmonary arterial thermodilution using a long radial artery catheter. A comparison with intermittent pulmonary artery thermodilution** *ANAESTHESIA*
Orme, R. M., Pigott, D. W., Mihm, F. G.
2004; 59 (6): 590-594
- **Laparoscopic management of bladder pheochromocytoma.** *Urology*
Kozlowski, P. M., Mihm, F., Winfield, H. N.
2001; 57 (2): 365-?
- **Continuous cardiac output catheters - Delay in in vitro response time after controlled flow changes** *ANESTHESIOLOGY*

- ARANDA, M., Mihm, F. G., Garrett, S., Mihm, M. N., Pearl, R. G.
1998; 89 (6): 1592-1595
- **A multicenter evaluation of a new continuous cardiac output pulmonary artery catheter system** *CRITICAL CARE MEDICINE*
Mihm, F. G., Gettinger, A., Hanson, C. W., Gilbert, H. C., Stover, E. P., Vender, J. S., Beerle, B., Haddow, G.
1998; 26 (8): 1346-1350
 - **Failure of steroid supplementation to prevent operative hypotension in a patient receiving chronic steroid therapy** *ANESTHESIA AND ANALGESIA*
Ratner, E. F., Allen, R., Mihm, F. G., BROCKUTNE, J. G.
1996; 82 (6): 1294-1296
 - **RECOVERY OF CARDIOPULMONARY REFLEXES IN MONKEYS UNDERGOING HEART-LUNG TRANSPLANTATION** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Mihm, F. G., POPOVIC, B. K., Noe, C., Hilberman, M., Reitz, B. A.
1989; 98 (4): 510-516
 - **DIAGNOSIS OF A VENTRICULAR SEPTAL-DEFECT IN A GORILLA USING INVIVO OXIMETRY** *JOURNAL OF ZOO AND WILDLIFE MEDICINE*
MACHADO, C., Mihm, F. G., Noe, C.
1989; 20 (2): 199-202
 - **EXTRA-ADRENAL PHEOCHROMOCYTOMA - AN UNUSUAL LOCATION** *JOURNAL OF PEDIATRIC SURGERY*
Hartman, G. E., Hintz, R., Northway, W., Mihm, F. G.
1988; 23 (11): 1045-1047
 - **EFFECT OF HEPARINIZATION OF CATHETERS ON PULMONARY-ARTERY OXIMETRY** *JOURNAL OF CLINICAL MONITORING*
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 - **Endotoxemia in rats--influence of lipoxigenase blocker versus leukotriene receptor antagonist (BW755C vs LY171883).** *Progress in clinical and biological research*
Bahrami, S., Paul, E., Redl, H., Schlag, G., Mihm, F.
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 - **PULMONARY EFFECTS OF CRYSTALLOID AND COLLOID RESUSCITATION FROM HEMORRHAGIC-SHOCK IN THE PRESENCE OF OLEIC ACID-INDUCED PULMONARY CAPILLARY INJURY IN THE DOG** *ANESTHESIOLOGY*
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1988; 68 (1): 12-20
 - **RAPID ASSESSMENT OF VENTILATION BY MEASUREMENT OF CARBON-DIOXIDE ELIMINATION DURING HIGH-FREQUENCY VENTILATION OF KITTENS** *PEDIATRIC PULMONOLOGY*
Smith, D. W., Frankel, L. R., Walker, J. G., Cheng, E. Y., MEREDITH, K. S., Mihm, F. G., Ariagno, R. L.
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 - **NASAL CONTINUOUS POSITIVE AIRWAY PRESSURE IN ATELECTASIS** *CHEST*
Duncan, S. R., Negrin, R. S., Mihm, F. G., Guillemineault, C., Raffin, T. A.
1987; 92 (4): 621-624
 - **CARE OF THE ADULT PATIENT DURING TRANSPORT** *INTERNATIONAL ANESTHESIOLOGY CLINICS*
Pearl, R. G., Mihm, F. G., Rosenthal, M. H.
1987; 25 (2): 43-75
 - **LEUKOTRIENE-D4 INCREASES EXTRAVASCULAR LUNG WATER IN THE DOG** *CIRCULATORY SHOCK*
Shapiro, J. M., Mihm, F. G., Trudell, J. R., Stevens, J. H., Feeley, T. W.
1987; 21 (2): 121-128
 - **Effect of the nonsteroidal antiinflammatory agent BW755C in rat and sheep endotoxemia.** *Progress in clinical and biological research*
Bahrami, S., Mihm, F., Thurnher, M., Vogl, C., Schiesser, A., Redl, H., Schlag, G.
1987; 236A: 347-359

- **THERMAL DYE DOUBLE INDICATOR DILUTION MEASUREMENT OF LUNG WATER IN MAN - COMPARISON WITH GRAVIMETRIC MEASUREMENTS** *THORAX*
Mihm, F. G., Feeley, T. W., Jamieson, S. W.
1987; 42 (1): 72-76
- **ANESTHESIA FOR HEART-TRANSPLANTATION - A RETROSPECTIVE STUDY AND REVIEW** *BRITISH JOURNAL OF ANAESTHESIA*
DEMAS, K., Wyner, J., Mihm, F. G., Samuels, S.
1986; 58 (12): 1357-1364
- **THE EFFECTS OF PROSTAGLANDIN-E1 ON THE ADULT RESPIRATORY-DISTRESS SYNDROME IN SEPTIC PRIMATES** *AMERICAN REVIEW OF RESPIRATORY DISEASE*
BROCKMANN, D. C., Stevens, J. H., OHANLEY, P., Shapiro, J., Walker, C., Mihm, F. G., Collins, J. A., Raffin, T. A.
1986; 134 (5): 885-890
- **THE THERMAL-DYE METHOD OF LUNG WATER MEASUREMENT IS RELIABLE AT A LOW CARDIAC-OUTPUT** *JOURNAL OF SURGICAL RESEARCH*
Calcagni, D. E., Mihm, F. G., Feeley, T. W., Halperin, B. D., Rosenthal, M. H.
1986; 41 (3): 286-292
- **EFFECTS OF ANTI-C5A ANTIBODIES ON THE ADULT RESPIRATORY-DISTRESS SYNDROME IN SEPTIC PRIMATES** *JOURNAL OF CLINICAL INVESTIGATION*
Stevens, J. H., OHANLEY, P., Shapiro, J. M., Mihm, F. G., Satoh, P. S., Collins, J. A., Raffin, T. A.
1986; 77 (6): 1812-1816
- **HYPOTHERMIC PRESERVATION OF THE HEART AND LUNGS WITH COLLINS SOLUTION - EFFECT ON CARDIORESPIRATORY FUNCTION FOLLOWING HEART-LUNG ALLOTRANSPLANTATION IN DOGS** *ANNALS OF THORACIC SURGERY*
Feeley, T. W., Mihm, F. G., DOWNING, T. P., Sadeghi, A. M., Baumgartner, W. A., Reitz, B. A., Shumway, N. E.
1986; 41 (3): 301-306
- **OBSTRUCTIVE SLEEP-APNEA AND CARDIAC INDEX** *CHEST*
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- **LEUKOTRIENES IN PULMONARY-EDEMA FLUID AFTER CARDIOPULMONARY BYPASS** *ANESTHESIA AND ANALGESIA*
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1986; 65 (3): 306-308
- **AN INTEGRATED CIRCUIT-BASED OPTICAL SENSOR FOR INVIVO MEASUREMENT OF BLOOD OXYGENATION** *IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING*
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- **NEW METHODS FOR WHOLE-BLOOD OXIMETRY** *ANNALS OF BIOMEDICAL ENGINEERING*
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- **NONINVASIVE DETECTION OF PROFOUND ARTERIAL DESATURATIONS USING A PULSE OXIMETRY DEVICE** *ANESTHESIOLOGY*
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- **PROSTAGLANDIN E-1 DOES NOT PREVENT THE ADULT RESPIRATORY-DISTRESS SYNDROME IN SEPTIC PRIMATES**
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- **EFFECTS OF ANTI-C5A ANTIBODIES ON THE ADULT RESPIRATORY-DISTRESS SYNDROME IN SEPTIC PRIMATES**
Stevens, J. H., OHANLEY, P., Shapiro, J., Mihm, F. G., Satoh, P. S., Collins, J. A., Raffin, T. A.
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- **FAILURE OF THE COLLOID ONCOTIC-PULMONARY ARTERY WEDGE PRESSURE-GRADIENT TO PREDICT CHANGES IN EXTRAVASCULAR LUNG WATER** *CRITICAL CARE MEDICINE*
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- **THE EFFECT OF HYPOTHERMIC PRESERVATION OF THE HEART AND LUNGS ON CARDIORESPIRATORY FUNCTION FOLLOWING CANINE HEART-LUNG TRANSPLANTATION** *ANNALS OF THORACIC SURGERY*
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- **HYPERTENSION AFTER INTRAOPERATIVE AUTO-TRANSFUSION IN BILATERAL ADRENALECTOMY FOR PHEOCHROMOCYTOMA** *ANESTHESIOLOGY*
Smith, D. F., Mihm, F. G., MEFFORD, I.
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- **PULMONARY-ARTERY CATHETERS - THE SHAKE-FLICK TEST** *ANESTHESIOLOGY*
Mihm, F. G., ASHTON, J. P.
1983; 59 (3): 262-263
- **PROLONGED TOXICITY OF ORGANO-PHOSPHATE POISONING** *CRITICAL CARE MEDICINE*
Merrill, D. G., Mihm, F. G.
1982; 10 (8): 550-557
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SAUL, G. M., Feeley, T. W., Mihm, F. G.
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- **MEASUREMENT OF EXTRA-VASCULAR LUNG WATER IN DOGS USING THE THERMAL-GREEN DYE INDICATOR DILUTION METHOD** *ANESTHESIOLOGY*
Mihm, F. G., Feeley, T. W., Rosenthal, M. H., Lewis, F.
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