

# Stanford

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## Thomas Raffin

The Colleen and Robert Haas Professor in Medicine and Biomedical Ethics, Emeritus

 Curriculum Vitae available Online

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine

#### ADMINISTRATIVE APPOINTMENTS

- Co-Founder and Director Emeritus, Stanford Center for Biomedical Ethics, (1989- present)
- Chief, Pulmonary and Critical Care Medicine, Stanford Department of Medicine, (1991-2004)
- Director and Founder, Stanford University-Asia Medical Fund, Stanford University fellowships from Pacific Rim, (1982- present)
- Board Member, NewLink Genetics, NewLink Genetics, Inc., (2000- present)
- Advisor, Broncus Technologies, Inc., (1996- present)
- Consultant, Nektar, Inc., (1999- present)
- Co-Founder, Hutchison Program in Translational Medicine at Stanford University(\$5,000,000), (1998-2003)
- Co-Founder and Co-Director, Stanford Program in Genomics, Ethics and Society, (1995- present)
- Course Founder and Director - Intensive Life Support Systems: Present Practice and Moral Issues, Stanford University Undergraduate Curriculum, (1984-1988)
- Course Founder and Director - Ethical Values in Health Care: Lessons from the Nazi Period, Stanford University Undergraduate Curriculum, (1994-1996)

#### HONORS AND AWARDS

- Henry J. Kaiser Foundation Award for Excellence in Clinical Teaching, Stanford University Medical School (1980)
- Arthur L. Bloomfield Award for Excellence in the Teaching of Clinical Medicine, Stanford University Medical School (1981)
- Henry J. Kaiser Foundation Award for Excellence in Clinical Teaching, Stanford University Medical School (1984)
- Henry J. Kaiser Award for Excellence in Clinical Teaching, Stanford University Medical School (1988)
- Henry J. Kaiser Foundation Award for Excellence in Preclinical Teaching, Stanford University Medical School (1997)

#### PROFESSIONAL EDUCATION

- Fellow, Stanford Medical School , Pulmonary and Critical Care (1978)
- Resident, Peter Bent Brigham Hospital , Internal Medicine (1975)
- MD, Stanford School of Medicine , Medicine (1973)
- AB, Stanford University , Biological Sciences (1968)

#### COMMUNITY AND INTERNATIONAL WORK

- Stanford University-Asia Medical Fund, Stanford University

## LINKS

- Stanford Center for Biomedical Ethics: <http://scbe.stanford.edu/>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Acute lung tissue injury is often mediated by neutrophils. Our laboratory studied the basic biology of neutrophils and mechanisms of neutrophil-mediated pulmonary injury. Investigative approaches included the molecular biology of neutrophil activation, neutrophil ion channel regulation, mechanisms of signal transduction with an emphasis on protein phosphorylation, control of neutrophil activation and the use of animal models to investigate the use of agents and intermediaries which might attenuate neutrophil-mediated acute lung injury. Besides these areas of basic investigation, clinical studies in biomedical ethics were also pursued. For example: End-of-life decision making, differences in informed consent and decision making between patients and physicians in Japan and America, the efficacy of ethics committees in the United States, the new role of biomedical ethics in managed care; social, ethical and legal issues in genomics and genetic testing, and neuroethics.

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Health Services Research (Masters Program)
- Medicine (Masters Program)

## Publications

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### PUBLICATIONS

- **Advertising, patient decision making, and self-referral for computed tomographic and magnetic resonance imaging** *ARCHIVES OF INTERNAL MEDICINE*  
Illes, J., Kann, D., Karetsky, K., Letourneau, P., Raffin, T. A., Schraedley-Desmond, P., Koenig, B. A., Atlas, S. W.  
2004; 164 (22): 2415-2419
- **Discovery and disclosure of incidental findings in neuroimaging research** *33rd Annual Meeting of the Society-for-Neuroscience*  
Illes, J., Kirschen, M. P., Karetsky, K., Kelly, M., Saha, A., Desmond, J. E., Raffin, T. A., Glover, G. H., Atlas, S. W.  
JOHN WILEY & SONS INC.2004: 743-47
- **Chylothorax after heart/lung transplantation** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*  
Ziedalski, T. M., Raffin, T. A., Sze, D. Y., Mitchell, J. D., Robbins, R. C., Theodore, J., Faul, J. L.  
2004; 23 (5): 627-631
- **Ethical consideration of incidental findings on adult brain MRI in research** *NEUROLOGY*  
Illes, J., Rosen, A. C., Huang, L., Goldstein, R. A., Raffin, T. A., Swan, G., Atlas, S. W.  
2004; 62 (6): 888-890
- **Thoracic lymphatic disorders.** *Lymphatic research and biology*  
Davis, K. K., Berry, G. J., Raffin, T. A., Faul, J. L.  
2004; 2 (3): 131-137
- **Self-referred whole-body CT imaging: Current implications for health care consumers** *RADIOLOGY*  
Illes, J., Fan, E., Koenig, B. A., Raffin, T. A., Kann, D., Atlas, S. W.  
2003; 228 (2): 346-351
- **Privacy issues in personalized medicine** *PHARMACOGENOMICS*  
Vaszar, L. T., Cho, M. K., Raffin, T. A.  
2003; 4 (2): 107-112
- **Ethical and practical considerations in managing incidental findings in functional magnetic resonance imaging** *BRAIN AND COGNITION*  
Illes, J., Desmond, J. E., Huang, L. F., Raffin, T. A., Atlas, S. W.  
2002; 50 (3): 358-365

- **Neuroethics: An emerging new discipline in the study of brain and cognition** *BRAIN AND COGNITION*  
Illes, J., Raffin, T. A.  
2002; 50 (3): 341-344
- **Lymphoid interstitial pneumonia - A narrative review** *CHEST*  
Swigris, J. J., Berry, G. J., Raffin, T. A., Kuschner, W. G.  
2002; 122 (6): 2150-2164
- **Ethical issues in the long term management of progressive degenerative neuromuscular diseases** *SEMINARS IN RESPIRATORY AND CRITICAL CARE MEDICINE*  
Vaszar, L. T., Weinacker, A. B., Henig, N. R., Raffin, T. A.  
2002; 23 (3): 307-314
- **The burden of out-of-pocket payments for health care in Tbilisi, Republic of Georgia** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Skarbinski, J., Walker, H. K., Baker, L. C., Kobaladze, A., Kirtava, Z., Raffin, T. A.  
2002; 287 (8): 1043-1049
- **Pharmacogenomics and the challenge to privacy.** *pharmacogenomics journal*  
Vaszar, L. T., Rosen, G. D., Raffin, T. A.  
2002; 2 (3): 144-147
- **PG490-88, a derivative of triptolide, blocks bleomycin-induced lung fibrosis** *AMERICAN JOURNAL OF PATHOLOGY*  
Krishna, G., Liu, K. L., Shigemitsu, H., Gao, M. X., Raffin, T. A., Rosen, G. D.  
2001; 158 (3): 997-1004
- **The impact of practice setting on physician perceptions of the quality of practice and patient care in the managed care era** *ARCHIVES OF INTERNAL MEDICINE*  
Chehab, E. L., Panicker, N., Alper, P. R., Baker, L. C., Wilson, S. R., Raffin, T. A.  
2001; 161 (2): 202-211
- **Biomedical ethics and the withdrawal of advanced life support** *ANNUAL REVIEW OF MEDICINE*  
Henig, N. R., Faul, J. L., Raffin, T. A.  
2001; 52: 79-92
- **Ethical decision making and patient autonomy - A comparison of physicians and patients in Japan and the United States** *CHEST*  
Ruhnke, G. W., Wilson, S. R., Akamatsu, T., Kinoue, T., Takashima, Y., Goldstein, M. K., Koenig, B. A., Hornberger, J. C., Raffin, T. A.  
2000; 118 (4): 1172-1182
- **Thoracic lymphangiomas, lymphangiectasis, lymphangiomatosis, and lymphatic dysplasia syndrome** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Faul, J. L., Berry, G. J., Colby, T. V., Ruoss, S. J., Walter, M. B., Rosen, G. D., Raffin, T. A.  
2000; 161 (3): 1037-1046
- **Inhalational anthrax - Epidemiology, diagnosis, and management** *CHEST*  
Shafazand, S., Doyle, R., Ruoss, S., Weinacker, A., Raffin, T. A.  
1999; 116 (5): 1369-1376
- **Selective downregulation of neutrophils by a phosphatidic acid generation inhibitor in a porcine sepsis model** *JOURNAL OF SURGICAL RESEARCH*  
Oka, Y., Hasegawa, N., Nakayama, M., Murphy, G. A., Sussman, H. H., Raffin, T. A.  
1999; 81 (2): 147-155
- **Genetic testing and Alzheimer disease: Recommendations of the Stanford Program in Genomics, Ethics, and Society** *49th Annual Meeting of the American-Society-of-Human-Genetics*  
McConnell, L. M., Koenig, B. A., Greely, H. T., Raffin, T. A.  
MARY ANN LIEBERT INC.1999: 3-12
- **The dying thoracic patient.** *Chest surgery clinics of North America*  
Krishna, G., Raffin, T. A.  
1998; 8 (3): 723-739

- **Genetic testing and Alzheimer disease: Has the time come?** *NATURE MEDICINE*  
McConnell, L. M., Koenig, B. A., Greely, H. T., Raffin, T. A.  
1998; 4 (7): 757-759
- **Genetic testing for BRCA1 and BRCA2: Recommendations of the Stanford Program in Genomics, Ethics, and Society** *JOURNAL OF WOMENS HEALTH*  
Koenig, B. A., Greely, H. T., McConnell, L. M., Silverberg, H. L., Raffin, T. A.  
1998; 7 (5): 531-545
- **Effects of the lazaroïd, tirilazad mesylate, on sepsis-induced acute lung injury in minipigs** *CRITICAL CARE MEDICINE*  
Nakayama, M., Hasegawa, N., Oka, Y., Lutzke, B., McCall, J. M., Raffin, T. A.  
1998; 26 (3): 538-547
- **Lymphangioleiomyomatosis: New insights** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Kalassian, K. G., Doyle, R., Kao, P., Ruoss, S., Raffin, T. A.  
1997; 155 (4): 1183-1186
- **The effects of post-treatment with lisofylline, a phosphatidic acid generation inhibitor, on sepsis-induced acute lung injury in pigs** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Hasegawa, N., Oka, Y., Nakayama, M., Berry, G. J., Bursten, S., Rice, G., Raffin, T. A.  
1997; 155 (3): 928-936
- **Pulmonary capillaritis and alveolar hemorrhage - Update on diagnosis and management** *CHEST*  
Green, R. J., Ruoss, S. J., KRAFT, S. A., Berry, G. J., Raffin, T. A.  
1996; 110 (5): 1305-1316
- **How to withdraw mechanical ventilation: more studies are needed.** *American journal of critical care*  
Gilligan, T., Raffin, T. A.  
1996; 5 (5): 323-325
- **Whose death is it, anyway?** *ANNALS OF INTERNAL MEDICINE*  
Gilligan, T., Raffin, T. A.  
1996; 125 (2): 137-141
- **Necrotizing fasciitis** *CHEST*  
Green, R. J., Dafoe, D. C., Raffin, T. A.  
1996; 110 (1): 219-229
- **Upper airway obstruction caused by low-grade tracheal papillary adenocarcinoma: An unusual flow-volume loop pattern** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
Clarke, D. E., Green, R. J., Mark, J. B., Robbins, R. C., Raffin, T. A.  
1996; 111 (6): 1286-1288
- **The effects of recombinant human thrombomodulin on endotoxin-induced multiple-system organ failure in rats** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Hasegawa, N., KANDRA, T. G., HUSARI, A. W., Veiss, S., HART, W. T., Hedgpath, J., Wydro, R., Raffin, T. A.  
1996; 153 (6): 1831-1837
- **Withdrawing life support: Extubation and prolonged terminal weans are inappropriate** *CRITICAL CARE MEDICINE*  
Gilligan, T., Raffin, T. A.  
1996; 24 (2): 352-353
- **End-of-life discussions with patients: timing and truth-telling** *Chest*  
Raffin T.A., Gilligan T.  
1996: 11-12
- **RAPID WITHDRAWAL OF SUPPORT** *CHEST*  
Gilligan, T., Raffin, T. A.  
1995; 108 (5): 1407-1408
- **PULMONARY MELIOIDOSIS** *CHEST*

- Ip, M., Osterberg, L. G., Chau, P. Y., Raffin, T. A.  
1995; 108 (5): 1420-1424
- **ACTIVATION OF NADPH-OXIDASE AND ITS ASSOCIATED WHOLE-CELL H<sup>+</sup> CURRENT IN HUMAN NEUTROPHILS BY RECOMBINANT HUMAN TUMOR-NECROSIS-FACTOR-ALPHA AND FORMYL-METHIONYL-LEUCYL-PHENYLALANINE** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
SCHUMANN, M. A., Leung, C. C., Raffin, T. A.  
1995; 270 (22): 13124-13132
  - **TNF-ALPHA INDUCES TYROSINE PHOSPHORYLATION OF MITOGEN-ACTIVATED PROTEIN-KINASE IN ADHERENT HUMAN NEUTROPHILS** *JOURNAL OF IMMUNOLOGY*  
Rafiee, P., Lee, J. K., Leung, C. C., Raffin, T. A.  
1995; 154 (9): 4785-4792
  - **EFFECT OF BLOOD AND ALBUMIN ON PULMONARY-HYPERTENSION AND EDEMA IN PERFUSED RABBIT LUNGS** *JOURNAL OF APPLIED PHYSIOLOGY*  
KRAFT, S. A., Fujishima, S., McGuire, G. P., Thompson, J. S., Raffin, T. A., Pearl, R. G.  
1995; 78 (2): 499-504
  - **Withdrawing life support: How is the decision made?** *JAMA*  
Raffin T.A.  
1995: 738-739.
  - **Investigating the causes of fever in critically ill patients. Are you overlooking noninfectious causes?** *The Journal of critical illness*  
Green, R. J., Clarke, D. E., Fishman, R. S., Raffin, T. A.  
1995; 10 (1): 51-?
  - **Techniques for evaluating fever in the ICU. A stepwise approach for detecting infectious and noninfectious causes.** *The Journal of critical illness*  
Green, R. J., Clarke, D. E., Fishman, R. S., Raffin, T. A.  
1995; 10 (1): 67-71
  - **Pharmacological management of acute and chronic bronchial asthma.** *Advances in pharmacology (San Diego, Calif.)*  
Gould, M. K., Raffin, T. A.  
1995; 32: 169-204
  - **EFFECT OF THE NADPH OXIDASE INHIBITOR APOCYNIN ON SEPTIC LUNG INJURY IN GUINEA-PIGS** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Wang, X. Z., Suzuki, Y., Tanigaki, T., Rank, D. R., Raffin, T. A.  
1994; 150 (5): 1449-1452
  - **TGF-BETA(1) CAUSES INCREASED ENDOTHELIAL ICAM-1 EXPRESSION AND LUNG INJURY** *JOURNAL OF APPLIED PHYSIOLOGY*  
Suzuki, Y., Tanigaki, T., Heimer, D., Wang, W. Z., Ross, W. G., Murphy, G. A., Sakai, A., Sussman, H. H., Vu, T. H., Raffin, T. A.  
1994; 77 (3): 1281-1287
  - **THE PROTEIN-KINASE-C INHIBITOR, H-7, INDUCES ACUTE LUNG INJURY IN GUINEA-PIGS** *CRITICAL CARE MEDICINE*  
Tanigaki, T., Suzuki, Y., Heimer, D., Wang, W. Z., Sussman, H. H., Ross, W. G., Murphy, G. A., Ikeda, H., Raffin, T. A.  
1994; 22 (7): 1167-1173
  - **MAGNETIC-RESONANCE-IMAGING MARKETING AND INVESTMENT - TENSIONS BETWEEN THE FORCES OF BUSINESS AND THE PRACTICE OF MEDICINE** *CHEST*  
COWLEY, L. T., ISAACS, H. L., Young, S. W., Raffin, T. A.  
1994; 105 (3): 920-928
  - **ETHICAL DILEMMAS IN THE CRITICALLY ILL ELDERLY** *CLINICS IN GERIATRIC MEDICINE*  
Clarke, D. E., Goldstein, M. K., Raffin, T. A.  
1994; 10 (1): 91-101
  - **ACTIVATION OF A VOLTAGE-DEPENDENT CHLORIDE CURRENT IN HUMAN NEUTROPHILS BY PHORBOL 12-MYRISTATE 13-ACETATE AND FORMYL-METHIONYL-LEUCYL-PHENYLALANINE - THE ROLE OF PROTEIN-KINASE-C** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
SCHUMANN, M. A., Raffin, T. A.  
1994; 269 (4): 2389-2398

- **ROLE OF THE COAGULATION SYSTEM IN ARDS** *CHEST*  
Hasegawa, N., HUSARI, A. W., HART, W. T., KANDRA, T. G., Raffin, T. A.  
1994; 105 (1): 268-277
- **ETHICS OF FETAL TISSUE-TRANSPLANTATION** *WESTERN JOURNAL OF MEDICINE*  
Sanders, L. M., Giudice, L., Raffin, T. A.  
1993; 159 (3): 400-407
- **ATTENUATION OF ACUTE LUNG INJURY AND OXYGEN RADICAL PRODUCTION BY THE 21-AMINOSTEROID, U-78518F** *JOURNAL OF APPLIED PHYSIOLOGY*  
Tanigaki, T., Suzuki, Y., Heimer, D., Sussman, H. H., Ross, W. G., Raffin, T. A.  
1993; 74 (5): 2155-2160
- **The ethics of withholding and withdrawing critical care.** *Cambridge quarterly of healthcare ethics*  
Sanders, L. M., Raffin, T. A.  
1993; 2 (2): 175-184
- **RECOMBINANT HUMAN TUMOR-NECROSIS-FACTOR-ALPHA INDUCES CALCIUM OSCILLATION AND CALCIUM-ACTIVATED CHLORIDE CURRENT IN HUMAN NEUTROPHILS - THE ROLE OF CALCIUM CALMODULIN-DEPENDENT PROTEIN-KINASE** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
SCHUMANN, M. A., Gardner, P., Raffin, T. A.  
1993; 268 (3): 2134-2140
- **THE ORGAN-DONATION-COMMITTEE - AN ETHICALLY RESPONSIBLE APPROACH TO INCREASING THE ORGAN DONATION RATE** *CHEST*  
Sanders, L. M., DEVNEY, P., Young, E., Raffin, T. A.  
1992; 102 (5): 1572-1577
- **CARE OF THE DYING - AN ETHICAL AND HISTORICAL-PERSPECTIVE** *CRITICAL CARE MEDICINE*  
COWLEY, L. T., Young, E., Raffin, T. A.  
1992; 20 (10): 1473-1482
- **ATRIOPEPTIN-INDUCED INCREASES IN ENDOTHELIAL-CELL PERMEABILITY ARE ASSOCIATED WITH ELEVATED CGMP LEVELS** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Yonemaru, M., Ishii, K., Murad, F., Raffin, T. A.  
1992; 263 (3): L363-L369
- **THE MANAGEMENT OF CHYLOTHORAX** *CHEST*  
Valentine, V. G., Raffin, T. A.  
1992; 102 (2): 586-591
- **CA-2+-DEPENDENT AND CA-2+-INDEPENDENT MECHANISMS MODULATE WHOLE-CELL CATIONIC CURRENTS IN HUMAN NEUTROPHILS** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*  
SCHUMANN, M. A., Tanigaki, T., Heller, D. N., Raffin, T. A.  
1992; 185 (2): 531-538
- **EFFICACY OF COMPUTERS IN TEACHING ARTERIAL BLOOD-GAS ANALYSIS** *ACADEMIC MEDICINE*  
Clark, R. A., Raffin, T. A.  
1992; 67 (6): 365-366
- **EFFECT OF NADPH OXIDASE INHIBITION ON ENDOTHELIAL-CELL ELAM-1 MESSENGER-RNA EXPRESSION** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*  
Suzuki, Y., Wang, W. Z., Vu, T. H., Raffin, T. A.  
1992; 184 (3): 1339-1343
- **POLYETHYLENE GLYCOL-CONJUGATED SUPEROXIDE-DISMUTASE ATTENUATES SEPTIC LUNG INJURY IN GUINEA-PIGS** *AMERICAN REVIEW OF RESPIRATORY DISEASE*  
Suzuki, Y., Tanigaki, T., Heimer, D., Wang, W. Z., Ross, W. G., Sussman, H. H., Raffin, T. A.  
1992; 145 (2): 388-393
- **DEFINING PATIENT COMPETENCE FOR MEDICAL DECISION-MAKING** *CHEST*

- Kutner, J. S., RUARK, J. E., Raffin, T. A.  
1991; 100 (5): 1404-1409
- **TUMOR-NECROSIS-FACTOR INDUCED PROTEIN-PHOSPHORYLATION IN HUMAN NEUTROPHILS** *AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY*  
Crowley, J. J., Raffin, T. A.  
1991; 5 (3): 284-291
  - **PENTOXIFYLLINE DOES NOT ATTENUATE ACUTE LUNG INJURY IN THE ABSENCE OF GRANULOCYTES** *JOURNAL OF APPLIED PHYSIOLOGY*  
Yonemaru, M., HATHERILL, J. R., Hoffmann, H., Zheng, H., Ishii, K., Raffin, T. A.  
1991; 71 (1): 342-351
  - **SALMONELLA LUNG ABSCESS COMPLICATING WEGENERS GRANULOMATOSIS** *RESPIRATORY MEDICINE*  
Chan, J. C., Raffin, T. A.  
1991; 85 (4): 339-341
  - **WITHHOLDING AND WITHDRAWING LIFE-SUPPORT** *HOSPITAL PRACTICE*  
Raffin, T. A.  
1991; 26 (3): 133-?
  - **PNEUMOCYSTIS-CARINII PNEUMONIA COMPLICATING LOW-DOSE METHOTREXATE TREATMENT FOR RHEUMATOID-ARTHRITIS** *THORAX*  
Wollner, A., MOHLEBOETANI, J., Lambert, R. E., Perruquet, J. L., Raffin, T. A., McGuire, J. L.  
1991; 46 (3): 205-207
  - **ATTENUATION OF LPS-INDUCED NEUTROPHIL THROMBOXANE-B2 RELEASE AND CHEMILUMINESCENCE** *JOURNAL OF CELLULAR PHYSIOLOGY*  
Zheng, H., Crowley, J. J., Chan, J. C., Raffin, T. A.  
1991; 146 (2): 264-269
  - **EARLY POSTTREATMENT WITH PENTOXIFYLLINE OR DIBUTYRYL CAMP ATTENUATES ESCHERICHIA-COLI-INDUCED ACUTE LUNG INJURY IN GUINEA-PIGS** *AMERICAN REVIEW OF RESPIRATORY DISEASE*  
Hoffmann, H., HATHERILL, J. R., Crowley, J., Harada, H., Yonemaru, M., Zheng, H., Ishizaka, A., Raffin, T. A.  
1991; 143 (2): 289-293
  - **ISOPROTERENOL PREVENTS OXIDANT-INDUCED INJURY IN ISOLATED RABBIT LUNGS** *PHARMACOLOGY*  
Fujishima, S., KRAFT, S. A., McGuire, G. P., Raffin, T., Pearl, R. G.  
1991; 43 (2): 78-83
  - **ATTENUATION OF TUMOR NECROSIS FACTOR-INDUCED ENDOTHELIAL-CELL CYTOTOXICITY AND NEUTROPHIL CHEMILUMINESCENCE** *AMERICAN REVIEW OF RESPIRATORY DISEASE*  
Zheng, H., Crowley, J. J., Chan, J. C., Hoffmann, H., HATHERILL, J. R., Ishizaka, A., Raffin, T. A.  
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  - **LYMPHANGIOLEIOMYOMATOSIS - CLINICAL COURSE IN 32 PATIENTS** *NEW ENGLAND JOURNAL OF MEDICINE*  
Taylor, J. R., Ryu, J., Colby, T. V., Raffin, T. A.  
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  - **SEQUENTIAL ASSESSMENT OF PULMONARY EPITHELIAL DIETHYLENE TRIAMINE PENTA-ACETATE CLEARANCE AND INTRAPULMONARY TRANSFERRIN ACCUMULATION DURING ESCHERICHIA-COLI PERITONITIS** *AMERICAN REVIEW OF RESPIRATORY DISEASE*  
Ishizaka, A., Stephens, K. E., Segall, G. M., HATHERILL, J. R., McDougall, I. R., Wu, Z. H., Raffin, T. A.  
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  - **KINETICS OF LEUKOCYTE SEQUESTRATION IN THE LUNGS OF ACUTELY SEPTIC PRIMATES - A STUDY USING IN-111 LABELED AUTOLOGOUS LEUKOCYTES** *JOURNAL OF SURGICAL RESEARCH*  
HANGEN, D. H., Segall, G. M., HARNEY, E. W., Stevens, J. H., McDougall, I. R., Raffin, T. A.  
1990; 48 (3): 196-203
  - **MANAGEMENT OF CARBON-MONOXIDE POISONING** *CHEST*

- ILANO, A. L., Raffin, T. A.  
1990; 97 (1): 165-169
- **PREVENTION OF INTERLEUKIN-2-INDUCED ACUTE LUNG INJURY IN GUINEA-PIGS BY PENTOXIFYLLINE** *JOURNAL OF APPLIED PHYSIOLOGY*  
Ishizaka, A., HATHERILL, J. R., Harada, H., Yonemaru, M., Hoffmann, H., Zheng, H., OHANLEY, P. T., Raffin, T. A.  
1989; 67 (6): 2432-2437
  - **EFFECTS OF TUMOR NECROSIS FACTOR ON PMN CHEMOTAXIS, CHEMI-LUMINESCENCE, AND ELASTASE ACTIVITY** *JOURNAL OF LABORATORY AND CLINICAL MEDICINE*  
Yonemaru, M., Stephens, K. E., Ishizaka, A., Zheng, H., HOGUE, R. S., Crowley, J. J., HATHERILL, J. R., Raffin, T. A.  
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  - **EFFECTS OF ANTI-C5A ANTIBODIES ON HUMAN POLYMORPHONUCLEAR LEUKOCYTE FUNCTION - CHEMOTAXIS, CHEMI-LUMINESCENCE, AND LYSOSOMAL-ENZYME RELEASE** *JOURNAL OF BIOLOGICAL RESPONSE MODIFIERS*  
HATHERILL, J. R., Stephens, K. E., Nagao, K., Ishizaka, A., WILMARTH, L., Wang, J. C., DEINHART, T., Larrick, J. W., Raffin, T. A.  
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  - **Diagnosis and management of the adult respiratory distress syndrome.** *Comprehensive therapy*  
HATHERILL, J. R., Raffin, T. A.  
1989; 15 (12): 21-27
  - **THE EFFECTS OF AMINOPHYLLINE AND PENTOXIFYLLINE ON MULTIPLE ORGAN DAMAGE AFTER ESCHERICHIA-COLI SEPSIS** *AMERICAN REVIEW OF RESPIRATORY DISEASE*  
Harada, H., Ishizaka, A., Yonemaru, M., Mallick, A. A., HATHERILL, J. R., Zheng, H., Lilly, C. M., OHANLEY, P. T., Raffin, T. A.  
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