

The Mountain-Whisper-Light
Statistical Consulting; Nayak Polissar PhD
1827 23rd Ave. East, Seattle, WA 98112-2913

Phone: (206) 329-9325 • Fax: (206) 324-5915
E-mail: nayak@mwlight.com
www.mwlight.com

EXPRESS VERSION OF CV HERE—FULL VERSION FOLLOWS ON THE NEXT PAGE

Nayak L. Polissar, Ph.D.

Personal statement: I have been involved with biomedical and environmental research for many years. I do hope that this effort will ease some pain and save some lives. I enjoy working with people, and clear communication of results is one of my specialties.

Education:

Ph.D., Statistics, Princeton University, thesis advisor was the legendary statistician, John Tukey
B.A., Mathematics, University of California (Berkeley).

Recent professional positions:

Owner, The Mountain-Whisper-Light Statistical Consulting, 1989-present
Associate Professor (Biostatistics), University of Washington, 1982-1989
Associate Member, Fred Hutchinson Cancer Research Center, 1982-1989
Affiliate Associate Professor (Biostatistics), University of Washington, 1989-present

Publications:

Over 190 peer-reviewed articles in scientific journals

Research

I have worked on a wide variety of studies in medicine and the environment; examples:

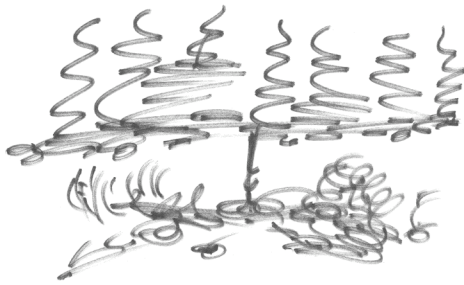
- Design and analysis of drug and treatment trials
- Malpractice -- effects of cancer treatment delay
- Gender and age discrimination
- Accuracy of pap smears
- Effectiveness of rehabilitation services
- Evaluation of lens implants
- Asbestos risk assessment
- Racial discrimination -- develop and analyze database
- Survey design, sample size, analysis
- Neurobehavioral outcomes following head injury
- Risk factors for relapse among physicians treated for substance abuse
- Impact of ergonomic laws on ergonomic practices and injury rates
- Diagnostic tests for cancer based on infrared spectrum of DNA
- Spatial distribution of environmental contaminants and spatial sampling
- Wide variety of survival analyses

Professional Societies:

American Statistical Association
Biometric Society

Other:

Honorary Distinguished Citizen, Washington State
“Lifting Up the World” award, for community service



The Mountain-Whisper-Light

Statistical Consulting; Nayak Polissar PhD
1827 23rd Ave. East, Seattle, WA 98112-2913
Phone: (206) 329-9325 • Fax: (206) 324-5915
E-mail: nayak@mwlight.com

CURRICULUM VITAE

Nayak Lincoln Polissar, PhD
1827 23rd Ave. East, Seattle WA 98112
(206) 329-9325/Fax (206) 324-5915
email: nayak@mwlight.com

Education: University of California, Berkeley, BA, Mathematics, 1966
Princeton University, New Jersey, MA, Statistics, 1968
Princeton University, New Jersey, PhD, Statistics, 1974
(Dissertation supervisor: John Tukey)

Professional Positions:

Physical Science Aide, U.S.N. Radiological Defense Laboratory, San Francisco, 1958-59
Principal Data Analyst, Lawrence Radiation Laboratory, Berkeley, CA 1961-66
Demographic Intern, The Population Council, New York City, 1967
Statistical Consultant, New Jersey Neuro-Psychiatric Institute, 1967-1968
Computer Clinic Consultant, Princeton University Computer Center, 1967-1968
Research Assistant, Statistics Department, Princeton University, 1968
Field Associate, Thailand and Indonesia, The Population Council, 1969-1971
Teaching Assistant, Statistics Department, Princeton University, 1974
Assistant Member, Fred Hutchinson Cancer Research Center, Seattle, WA, 1974-1982
Associate Member, Fred Hutchinson Cancer Research Center, Seattle, WA, 1982-1989
Assistant Professor, Department of Biostatistics, University of Washington, 1974-1982
Associate Professor, Department of Biostatistics, University of Washington, 1982-1989
Senior Consultant, Axio Research Corporation, 1989-2000
Affiliate Assoc. Professor, Dept. of Biostatistics, University of Washington, 1989-present
Owner, The Mountain-Whisper-Light Statistical Consulting, 1989-present
Affiliate Research Professor, Bastyr University, 2008-present

Other Appointments:

Consultant, NIH Study Section on Human Infertility, 1978
Consultant, Ford Foundation, Djakarta, Indonesia, 1971
Associate, Center for Studies in Demography and Ecology, University of Washington, 1976
Affiliate, Center for Health Services Research, University of Washington, 1977
Consultant, Science Advisory Board, EPA, 1985
Member, Hanford Health Effects Panel, 1986
Consultant, SBIR Review Panel, 1987
Consultant, World Bank, 1988

Honors

Distinguished Honorary Citizenship, Washington State, 1983; Co-recipient: Licht Award from the American College of Rehabilitation Medicine for excellence in Scientific Writing, 1993; Co-recipient: Best Research Paper award (physiatrist category) from the Phys. Med. and Rehabilitation Research Foundation and American Association of Phys. Med. and Rehabilitation, 1995

Membership in Professional Organizations:

American Statistical Association
Biometric Society

Consulting

Examples of completed projects:

- Design and analysis of drug and treatment trials
- Malpractice -- effects of cancer treatment delay
- Accuracy of pap smears
- Effectiveness of rehabilitation services
- Evaluation of lens implants
- Asbestos risk assessment
- Racial discrimination -- develop and analyze database
- Survey design, sample size, analysis
- Neurobehavioral outcomes following head injury
- Risk factors for relapse among physicians treated for substance abuse
- Impact of ergonomic laws on ergonomic practices and injury rates
- Diagnostic tests for cancer based on infrared spectrum of DNA
- Spatial distribution of environmental contaminants and spatial sampling
- Wide variety of survival analyses

Research (Principal Investigator of \$2.5 million in grants and contracts):

- Cancer risk from asbestos in drinking water
- Pathways of community exposure to arsenic from a smelter
- Cancer risk from phenoxy herbicides
- Hospice use and cost in Western Washington
- Adult respiratory distress syndrome -- epidemiology and survival
- Treatment and referral patterns for cervical cancer
- Auto exhaust and cancer

Teaching

Taught Biostatistics courses at the University of Washington for 15 years
Offer invited lectures on statistical consulting 2-3 times/year at the UW

Research papers in refereed journals

- 1 Batjer JD, Williamson LJ, Polissar L, Hamlin WB: Bacterial contamination of reagent water: Effect on selected laboratory tests. *Am J Clin Path* 71:319-25, 1979.
- 2 Smith DE, Davis S, Polissar L: The hospital cancer program: Its impact on cancer care. *Am Surgeon* 11:730-7, 1979.
- 3 Polissar L: The effect of migration on comparison of disease rates in geographic studies in the United States. *Am J Epidemiol* 111:175-82, 1980.
- 4 Smith EM, Francis A, Polissar L: The effect of breast self-exam practices and physician examination on extent of disease at diagnosis. *Prev Med* 9:409-17, 1980.
- 5 Davis S, Polissar L, Wilson J: Continuing education in cancer for the community physician: Design and evaluation of a regional table of contents service. *Bull Med Library Assoc* 69:14-20, 1981.
- 6 Severson RK, Harvey J, Polissar L: The relationship between asbestos and turbidity in raw water. *J Am Water Works Assoc* 73:222-3, 1981.
- 7 Polissar L, Warner HJ, Jr: Automobile traffic and lung cancer: An update on Blumer's report. *Environ Sci Tech* 15:713-4, 1981.
- 8 Polissar L, Sim DA, Francis A: Survival of colorectal cancer patients in relation to duration of symptoms and other prognostic factors. *Dis Colon Rectum* 24:364-9, 1981.
- 9 Chu J, Polissar L, Tamimi HK: Quality of care of women with stage I cervical cancer. *West J Med* 137:13-17, 1982.
- 10 Polissar L, Severson RK, Boatman ES, Thomas DB: Cancer incidence in relation to asbestos in drinking water in the Puget Sound region. *Am J Epidemiol* 116:314-28, 1982.
- 11 Severson RK, Davis S, Polissar L: Smoking, coffee and cancer of the pancreas. *Brit Med J* 285:214, 1982.
- 12 Polissar L, Diehr P: Regression analysis in health services research: The use of dummy variables. *Medical Care* 20:959-66, 1982.
- 13 Feigl P, Polissar L, Lane WW, Guinee V: Reliability of basic cancer patient data. *Statistics in Medicine* 1:191-204, 1982.
- 14 Harris NV, Weiss NS, Francis A, Polissar L: Breast cancer in relation to patterns of oral contraceptive use. *Am J Epidemiol* 116:643-51, 1982.
- 15 Polissar L, Severson RK, Boatman ES: Cancer risk from asbestos in drinking water: Summary of a case-control study in Western Washington. *Environ Health Persp* 53:57-61, 1983.
- 16 Polissar L, Severson RK, Boatman ES: Additional notes on the case-control study in Western Washington on the cancer risk from asbestos in drinking water. *Environ Health Persp* 53:57-61, 1983.

- 17 Boatman ES, Merrill T, O'Neill A, Polissar L, Millette JR: Use of quantitative analysis of urine to assess exposure to asbestos fibers in drinking water in the Puget Sound region. *Environ Health Persp* 53:131-9, 1983.
- 18 Polissar L, Severson RK, Boatman ES: A case-control study of asbestos in drinking water and cancer risk. *Am J Epidemiol* 119:456-71, 1984.
- 19 Polissar L, Feigl P, Lane WW, Glaefke G, Dahlberg S: Accuracy of basic cancer patient data: Results of an extensive recoding survey. *JNCI* 72:1007-14, 1984.
- 20 Francis A, Polissar L, Lorenz AB: Care of patients with colorectal cancer: A comparison between health maintenance organization and fee-for-service practices. *Medical Care* 22:418-429, 1984.
- 21 Dayal HH, Polissar L, Dahlberg S: Race, socio-economic status and other prognostic factors for survival from prostate cancer. *JNCI* 74:1001-6, 1985.
- 22 Polissar L, Finley ML: Time trends and key factors in the choice of one-step or two-step biopsy and surgery for breast cancer. *Soc Sci Med* 21:733-40, 1985.
- 23 Dodds L, Davis S, Polissar L: A population-based study of lung cancer incidence. Trends by histologic type, 1974-81. *JNCI* 76:21-9, 1986.
- 24 McDonald JA, Weiss NS, Daling JR, Polissar L: Menopausal estrogen use and the risk of breast cancer. *Breast Cancer Research and Treatment* 7:193-9, 1986.
- 25 Dayal HH, Polissar L, Dahlberg S: Response to letter on "Race, socioeconomic status and other prognostic factors for survival from prostate cancer." *JNCI* 76:1259-60, 1986.
- 26 Polissar L, Severson RK, Brown NK: Factors affecting place of death in Washington State, 1968-1981. *J of Community Health* 12(1):40-55, 1987.
- 27 Woods JS, Polissar L, Severson RK, Heuser LS: Soft tissue sarcoma and non-Hodgkins lymphoma in relation to phenoxy herbicide and chlorinated phenol exposure in Western Washington. *JNCI* 78(5):899-910, 1987.
- 28 Dayal H, Polissar L, Yang C: Race, socioeconomic status and other prognostic factors for survival from colo-rectal cancer. *J Chron Dis* 40:857-64, 1987.
- 29 Hughes J, Polissar L, van belle B: Evaluation and synthesis of health effects studies of communities surrounding arsenic producing industries. *International J of Epidemiology* 17:407-13, 1988.
- 30 Woods J, Polissar L: Non-Hodgkins lymphoma among phenoxy herbicide-exposed farm workers in western Washington state. *Chemosphere* 18:401-6, 1989.
- 31 Kulander BG, Polissar L, Yang CY, Woods JS: Grading of soft tissue sarcomas: Necrosis as a determinant of survival. *Modern Pathology* 2(3):205-8, 1989.
- 32 Moinpour CM, Polissar L: Factors affecting place of death among hospice and non-hospice cancer patients. *Am J Public Health* 79:1549-51, 1989.

- 33 DiGuseppi CG, Rivara FP, Koepsell TD, Polissar L: Bicycle helmet use by children; evaluation of a community-wide helmet campaign. *J Am Med Assoc* 262:2256-61, 1989. (Also selected for publication in Japanese JAMA edition).
- 34 Tarter ME, Freeman WR, Polissar L: Modular nonparametric subsurvival estimation. *J Am Statist Assoc* 85(409):29-37, 1990.
- 35 Moinpour CM, Polissar L, Conrad D: Factors associated with length of stay in hospice. *Medical Care* 28:363-8, 1990.
- 36 Polissar L, Lowry-Coble K, Kalman DA, Hughes JP, van Belle G, Covert DS, Burbacher TM, Bolgiano D, Mottel NK: Pathways of human exposure to arsenic in a community surrounding a copper smelter. *Environmental Research* 53:29-47, 1990.
- 37 Kalman DA, Hughes J, van Belle G, Burbacher T, Bolgiano D, Coble K, Mottel NK, Polissar L: The effect of variable environmental arsenic contamination on urinary concentrations of arsenic species. *Environmental Health Perspectives* 89:145-51, 1990.
- 38 Kruger VL, Kraft G, Dietz JC, Ameis A, Polissar L: Carpal tunnel syndrome: objective measures and splint use. *Archives of Physical Medicine and Rehabilitation* 72:517-20, 1991.
- 39 Glenny RW, Polissar L, Robertson HT: Relative contribution of gravity to pulmonary perfusion heterogeneity. *Journal of Applied Physiology* 71:2449-52, 1991.
- 40 Russell KJ, Dunatov C, Hafermann MD, Griffith JT, Polissar L, Pelton J, Cole SB, Taylor EW, Wiens LW, Koh WJ, Austin-Seymour MM, Griffin BR, Russell AH, Laramore GE, Griffin TW: Prostate specific antigen in the management of patients with localized adenocarcinoma of the prostate treated with primary radiation therapy. *Journal of Urology* 146:1046-52, 1991.
- 41 Smith JW, Frawley PJ, Polissar L: Six- and twelve- month abstinence rates in inpatient alcoholics treated with aversion therapy compared with matched inpatients from a treatment registry. *Alcoholism: Clinical and Experimental Research* 15(5):862-70, 1991.
- 42 Jaffe KM, Fay G, Polissar NL, Martin K, Shurtleff H, Rivara JB, Winn HR: Severity of pediatric traumatic brain injury and early neurobehavioral outcome: a cohort study. *Archives of Physical Medicine and Rehabilitation* 73(6):540-7, 1992.
- 43 Rivara JB, Fay G, Jaffe KM, Polissar NL, Martin K: Predictors of family functioning one year following traumatic brain injury in children. *Arch Phys Med Rehabil* 73(10):899-910, 1992.
- 44 Swenson ER, Robertson HT, Polissar NL, Middaugh ME, Hlastala MP: Conducting airway gas exchange: diffusion related differences in inert gas elimination. *J Appl Physiol* 72:1581-8, 1992.
- 45 Jaffe KM, Fay G, Polissar NL, Martin K, Shurtleff H, Rivara JB, Winn HR: Severity of pediatric traumatic brain injury and neurobehavioral recovery at one year - a cohort study. *Arch Phys Med Rehabil* 74(6):587-595, 1993.
- 46 Fay GC, Jaffe KM, Polissar NL, Liao S, Martin K, Shurtleff H, Rivara JB, Winn HR: Mild pediatric traumatic brain injury: a cohort study. *Arch Phys Med Rehabil* 74(9):895-901, 1993.

- 47 Rivara JB, Jaffe KM, Fay GC, Polissar NL, Martin KM, Shurtleff H, Liao S: Family functioning and injury severity as predictors of child functioning one year following traumatic brain injury. *Arch Phys Med Rehabil* 74(10):1047-55, 1993.
- 48 Domino KB, Swenson ER, Polissar NL, Lu Y, Eisenstein BL, Hlastala MP: Effect of inspired CO₂ on ventilation and perfusion heterogeneity in hyperventilated dogs. *J. Appl. Physiol.* 75(3):1306-14, 1993.
- 49 Domino KGB, Swenson ER, Polissar NL, Eisenstein BL, Hlastala MP. Effect of Inspired CO₂ on Ventilation and Perfusion Heterogeneity in Hyperventilated Dogs. *J Appl. Physiol.* 75(3): 1306-1314, 1993.
- 50 Jaffe KM, Massagli TL, Martin KM, Rivara JB, Fay GC, Polissar NL: Pediatric traumatic brain injury: acute and rehabilitation costs. *Arch Phys Med Rehabil* 74(7):681-686, 1993.
- 51 Malins DC, Holmes EH, Polissar NL, Gunselman SJ: The etiology of breast cancer: characteristic alterations in hydroxyl radical-induced DNA base lesions during oncogenesis with a potential for evaluating incidence risk. *Cancer* 71(10):3036-3043, 1993.
- 52 Polissar, NL: Asbestos in drinking water: health issues. In *Health Risks from Exposure to Mineral Fibres: An International Perspective*, Gibbs GW, Dunnigan J, Masamitsu, K, Higashi T. Captus University Publications, North York, Ontario, 1993.
- 53 Willoughby SB, Obermiller T, Polissar NL, Mendenhall JM, Butler J, Lakshminarayan S: 15m microspheres reflux up the pulmonary veins during pulmonary artery occlusion. *Microvascular Research* 45:262-268, 1993.
- 54 Polissar NL, Fay GC, Jaffe KM, Liao S, Martin KM, Shurtleff HA, Rivara JB, Winn HR: Mild pediatric traumatic brain injury: adjusting significance for multiple comparisons. *Brain Injury* 8(3):249-264, 1994.
- 55 Fay GC, Jaffe KM, Polissar NL, Liao S, Rivara JB, Martin KM: Outcome of pediatric traumatic brain injury at three years: a cohort study. *Arch Phys Med Rehabil* 75(7):733-41, 1994.
- 56 McDonald CM, Jaffe KM, Fay GC, Polissar NL, Martin KM, Liao S, Rivara JB: Comparison of indices of traumatic brain injury severity as predictors of neurobehavioral outcome in children. *Arch Phys Med Rehabil* 75(3):328-37, 1994.
- 57 Rivara JB, Jaffe KM, Polissar NL, Fay GC, Martin KM, Shurtleff H, Liao S: Family functioning and children's academic performance and behavior problems in the year following traumatic brain injury. *Arch Phys Med Rehabil* 75(4):369-79, 1994.
- 58 Greenwald HP, Polissar NL, Borgatta EF, McCorkle R: Detecting survival effects of socioeconomic status: problems in the use of aggregate measures. *J Clin Epid* 47(8):903-909, 1994.
- 59 Warth DC, Leon MB, O'Neill W, Zacca N, Polissar NL, Buchbinder M: Rotational Atherectomy Multicenter Registry: Acute results, complications and six-month angiographic followup in 709 patients. *J Amer College of Cardiology* 24(3):641-8, 1994.
- 60 Malins, DC, Polissar NL, Nishikida K, Holmes EH, Gardner HS, Gunselman SJ. The etiology and prediction of breast cancer: fourier transform-infrared spectroscopy reveals progressive alterations in breast DNA leading to a cancer-like phenotype in a high proportion of normal women. *Cancer* 75(2):503-517, 1995.

- 61 Souders JE, George SC, Polissar NL, Swenson ER, Hlastala MP: Tracheal gas exchange: perfusion-related differences in inert gas elimination. *J Appl Phys* 79(3):918-928, 1995.
- 62 Glenny RW, Polissar NL, McKinney S, Robertson HT: Temporal heterogeneity of regional pulmonary perfusion is spatially clustered. *J Appl Phys* 79(3):986-1001, 1995.
- 63 Buntain-Ricklefs JJ, Rivara FP, Donovan DM, Salzberg PM, Polissar NL: Differentiating "bad drivers" with and without a DWI. *J. Stud. Alcohol* 56:356-360, 1995.
- 64 Jaffe KM, Polissar NL, Fay GC, Liao S: Recovery trends over three years following pediatric traumatic brain injury. *Arch Phys Med Rehabil* 76(1):17-26, 1995.
- 65 Malins DC, Polissar NL, Gunselman SJ. Progression of human breast cancers to the metastatic state is linked to hydroxyl radical-induced DNA damage. *Proceedings of the National Academy of Sciences* 93:2557-2563, 1996.
- 66 Malins DC, Polissar NL, Gunselman SJ: Tumor progression to the metastatic state involves structural modifications in DNA markedly different from those associated with primary tumor formation. *Proc. Natl. Acad. Sci.* 93:14047-14052, 1996.
- 67 Malins DC, Polissar NL, Garner MM, Gunselman SJ: Mutagenic DNA base modifications are correlated with lesions in non-neoplastic hepatic tissue of the English sole carcinogenesis model. *Cancer Research* 56:5563-5565, 1996.
- 68 Miller JS, Polissar NL, Haas M: A radiographic comparison of neutral cervical posture with cervical flexion and extension ranges of motion. *Journal of Manipulative and Physiological Therapeutics* 19(5):296-301, 1996.
- 69 Hlastala MP, Bernard SL, Erickson HH, Fedde MR, Gaughan EM, McMurphy R, Emery MJ, Polissar N, Glenny RW. Pulmonary blood flow distribution in standing horses is not dominated by gravity. *J Appl Physiol* 81(3):1051-1061, 1996.
- 70 Bernard SL, Glenny RW, Erickson HH, Fedde MR, Polissar N, Basaraba RJ, Hlastala MP: Minimal redistribution of pulmonary blood flow with exercise in racehorses. *J. Appl. Physiol.* 81(3):1062-1070, 1996.
- 71 Rivara JB, Jaffe KM, Polissar NL, Fay GC, Liao S, Martin KM: Predictors of family functioning and change three years following traumatic brain injury in children. *Arch Phys Med Rehabil* 77(8):754-764, 1996.
- 72 Greenwald HP, Borgatta EF, McCorkle R, Polissar NL: Explaining reduced cancer survival among the disadvantaged. *The Milbank Quarterly* 74(2):215-238, 1996.
- 73 Greenwald HP, Polissar NL, Borgatta EF, McCorkle R: Response to "Problems in the Use of Aggregate Measures." *J. Clin. Epidemiol.* 49(8): 943-945, 1996.
- 74 Smith JW, Frawley PJ, Polissar NL: Six- and Twelve-Month Abstinence Rates in Inpatient Alcoholics Treated with Either Faradic Aversion or Chemical Aversion Compared with Matched Inpatients from a Treatment Registry. *J of Addictive Diseases* 16(1):5-24, 1997.
- 75 Standish LJ, Calabrese C, Reeves C, Polissar N, Bain S, O'Donnell T: A Scientific Plan for the Evaluation of Alternative Medicine in the Treatment of HIV/AIDS. *Alternative Therapies in Health and Medicine* 3(2):58-67, 1997.

- 76 Malins DC, Polissar NL, Gunselman SJ: Infrared spectral models demonstrate that exposure to environmental chemicals leads to new forms of DNA. *Proc. Natl. Acad. Sci. USA* 94: 3611-3615, 1997.
- 77 Malins DC, Polissar NL, Gunselman SJ: Models of DNA structure achieve almost perfect discrimination between normal prostate, benign prostatic hyperplasia (BPH), and adenocarcinoma and have a high potential for predicting BPH and prostate cancer. *Proc. Natl. Acad. Sci.* 94:259-264, 1997.
- 78 Walther SM, Domino KB, Glenny RW, Polissar NL, Hlastala MP: Pulmonary blood flow distribution has a hilar-to-peripheral gradient in awake, prone sheep. *J. Appl. Physiol.* 82(2): 678-685, 1997.
- 79 Greenwald HP, Polissar NL, Dayal HH: Race, socioeconomic status, and survival in three female cancers. *Ethnicity & Health.* 1 (1996) : 65-75.
- 80 Bernard SL, Glenny RW, Polissar NL, Luchtel DL, Lakshminarayan S. Distribution of pulmonary and bronchial blood supply to airways measured by fluorescent microspheres. *J Appl Physiol* 80: 430-436, 1996.
- 81 Zierler RE, Bergelin RO, Davidson RC, Cantwell-Gab K, Polissar NL, Strandness DE: A prospective study of disease progression in patients with atherosclerotic renal artery stenosis. *Am J Hypertension* 9:1055-1061, 1996.
- 82 Shumway-Cook A, Baldwin M, Polissar NL, Gruber W: Predicting the Probability for Falls in Community Dwelling Older Adults. *Physical Therapy.* 77:812-819, 1997.
- 83 Malins DC, Polissar NL, Su Y, Gardner HS, Gunselman SJ. A new structural analysis of DNA using statistical models of infrared spectra. *Nature Medicine* 3(8): 927-930, 1997.
- 84 Zierler RE, Bergelin RO, Polissar NL, Beach KW, Caps MT, Cantwell-Gab K, Davidson RC, Strandness DE: Carotid and lower extremity arterial disease in patients with renal artery atherosclerosis. *Archives of Internal Medicine,* 158:761-767, 1998.
- 85 Ashley RL, Crisostomo F, Doss M, Sekulovich R, Burke RL, Shaughnessy M, Corey L, Polissar NL, Langenberg A: Cervical antibody responses to a herpes simplex virus type 2 glycoprotein subunit vaccine. *Journal of Infectious Diseases.* 178:1-7, 1998.
- 86 Walther SM, Domino KB, Glenny RW, Polissar NL, Hlastala MP: Pulmonary blood flow distribution in sheep: Effects of anesthesia, mechanical ventilation and change in posture. *Anesthesiol,* 87(2):335-342, 1997.
- 87 Greenwald, HP, Polissar NL, Borgatta, EF, McCorkle, R, Goodman, G. Social factors, treatment, and survival in early stage non-small cell lung cancer. *American Journal of Public Health,* 88(11):1681-1684, 1998.
- 88 Malins, DC, Polissar, NL, Schaefer, S, Su, Y, Vinson, M. A unified theory of carcinogenesis based on order-disorder transitions in DNA structure as studied in the human ovary and breast. *Proc. Natl. Acad. Sci. USA,* 95:7637-7642, 1998.
- 89 Pavlin, DJ, Rapp, SE, Polissar, NL, Malmgren, JA, Koerschgen, M, and Keyes. Factors affecting discharge time in adult outpatients. *Anesth Analg* 87:816-26, 1998.

- 90 Caps MT, Perissinotto C, Zierler RE, Polissar, NL, Bergelin RO, Tullis MJ, Cantwell-Gab K, Davidson RC, Strandness DE. Prospective study of atherosclerotic disease progression in the renal artery. *Circulation* 98:2866-2872, 1998.
- 91 Tullis MJ, Caps MT, Zierler RE, Bergelin RO, Polissar NL, Cantwell-Gab K, Davison RC, Strandness Jr. DE. Blood pressure, antihypertensive medication, and atherosclerotic renal artery stenosis. *American Journal of Kidney Diseases*, 33(4):675-681, 1999.
- 92 Caps MT, Meissner MH, Tullis MJ, Polissar NL, Manzo RA, Zierler BK, Chandler WL, Strandness, Jr., DE. Venous thrombous stability during acute phase of therapy. *Vascular Medicine* 4:9-14, 1999.
- 93 Domino KB, Anderson EA, Polissar NL, Posner KL. Comparative efficacy and safety of ondansetron, droperidol, and metoclopramide for preventing postoperative nausea and vomiting: a meta-analysis. *Anesth Analg* 88(6):1370-9, Jun 1999.
- 94 Chornuk MA, Self DA, Kallas HJ, Burns JW, Bernard S, Polissar NL, Glenny RW: Pulmonary blood flow redistribution by increased gravitational force. *J Appl Physiol* 84(4):1278-88, 1998.
- 95 Du Pen SL, DuPen AR, Polissar NL, Hansberry J, Kraybill BM, Stillman M, Panke J, Everly R, Syrjala KL. Implementing guidelines for cancer pain management: results of a randomized controlled clinical trial. *J Clinical Oncology* 17(1):361-370, 1998.
- 96 Deem S, Hedges RG, Mckinney S, Polissar NL, Alberts M, Swenson ER. Mechanisms of improvement in pulmonary gas exchange during isovolemic hemodilution. *J Appl Physiol* 87(1): 132-141, 1999.
- 97 Meissner, MH, Caps, MT, Zierler, BK, Polissar, NL, Bergelin, RO, Manzo, RA, Strandness, DE. Determinants of chronic venous disease after acute deep venous thrombosis. *J Vasc Surg* 28:826-33, 1998.
- 98 Hlastala MP, Chornuk MA, Self DA, Kallas HJ, Burns JW, Bernard S, Polissar NL, Glenny RW. Pulmonary blood flow redistribution by increased gravitational force. *J Appl Physiol* 84:1278-1288, 1998.
- 99 Mann CM, Domino KB, Walther SM, Glenny RW, Polissar NL, Hlastala MP. Redistribution of pulmonary blood flow during unilateral hypoxia in prone and supine dogs. *J Appl Physiol* 84:2010-2019, 1998.
- 100 Caps MT, Zierler ER, Polissar NL, Bergelin RO, Beach KW, Cantwell-Gab K, Casadei A, Davidson RC, Strandness DE: The risk of atrophy in kidneys with renal artery stenosis. *Kidney International* 53:735-742, 1998.
- 101 Yorkston KM, Jaffe KM, Fay GC, Polissar NL, Liao S: Written language production and neuropsychologic function in children with traumatic brain injury. *Arch Phys Med Rehabil* 78(10):1096-1102, 1997.
- 102 Massagli T, Jaffe KM, Fay GC, Polissar NL, Liao S, Rivara JB: Neurobehavioral sequelae of severe pediatric traumatic brain injury: a cohort study. *Arch Phys Med Rehabil* 77:223-31, 1996.
- 103 Bernard SL, Glenny RW, Erickson HH, Fedde MR, Polissar NL, Basaraba RJ, Hlastala MP. Minimal redistribution of pulmonary blood flow with exercise in racehorses. *J Appl Physiol* 81(3):1062-1070, 1996.

- 104 Hübler M, Souders JE, Shade ED, Hlastala MP, Polissar NL, Glenny RW. Validation of fluorescent-labeled microspheres for measurement of relative blood flow in severely injured lungs. *J Appl Physiol* 87:2381-2385, 1999.
- 105 Erickson HH, Bernard SL, Glenny RW, Fedde MR, Polissar NL, Basaraba RJ, Walther SM, Gaughan EM, Hlastala MP. Effect of furosemide on pulmonary blood flow distribution in resting and exercising horses. *J. Appl. Physiol.* 86: 2034-2043, 1999.
- 106 Lakshminarayan S, Bernard S, Polissar NL, Glenny RW: Pulmonary and bronchial circulatory responses to segmental lung injury. *J Appl Physiol* 87: 1931-1936, 1999.
- 107 Deem S, McKinney S, Polissar NJ, Hedges RG, Swenson ER: Hemodilution during venous gas embolization improves gas exchange without altering VA/Q or pulmonary blood flow distributions. *Anesthesiology* 91:1861-1872, 1999.
- 108 Pollock JE, Burkhead D, Neal JM, Spencer SL, Friedman A, Stephenson C, Polissar NL. Spinal nerve function in five volunteers experiencing transient neurologic symptoms after Lidocaine subarachnoid anesthesia. *Anesth Analg* 90:658-65, 2000.
- 109 Kang X, Polissar NL, Han C, Lin E, Yuan C. Analysis of the measurement precision of arterial lumen and wall areas using high resolution magnetic resonance imaging. *MRM* 44:968-972, 2000.
- 110 Chornuk MA, Bernard SL, Burns JW, Glenny RW, Sheriff DD, Sinclair SE, Polissar NL, Hlastala MP. Effects of inertial load and countermeasures on the distribution of pulmonary blood flow. *J Appl Physiol* 89(2):445-57, Aug 2000.
- 111 Polissar NL, Stanford D, Glenny R. The 400 microsphere per piece “rule” does not apply to all blood flow studies. *American Journal of Physiology: Heart and Circulatory Physiology.* 278: H16-H25, 2000.
- 112 Pollock JE, Neal JM, Spencer SL, Burkhead D, Polissar N. Sedation during spinal anesthesia. *Anesthesiology* 93(3): 28-34, 2000.
- 113 Malins DM, Polissar NL, Ostrander GK, Vinson M. Single 8-oxo-guanine and 8-oxo-adenine lesions induce marked changes in the backbone structure of a 25-base DNA strand. *Proc. Natl. Acad. Sci. USA* 97(23):12442-12445, 2000.
- 114 Garcia-Closas M, Hankinson SE, Ho S-M, Malins DM, Polissar NL, Schaefer SN, Su Y, Vinson MA. Factors critical to the design & execution of epidemiologic studies and description of an innovative technology to follow the progression from normal to cancer tissue. Chap. 9, pp 147-156, in *J Natl Cancer Inst, monograph 27*, Cavalieri E, Rogan E, eds., “Estrogens as Endogenous Carcinogens in the Breast and Prostate”, 2000.
- 115 Hatsukami TS, Ross R, Polissar NL, Yuan C. Visualization of fibrous cap thickness and rupture in human atherosclerotic carotid plaque in vivo with high-resolution magnetic resonance imaging. *Circulation* 102:959-964, 2000.
- 116 Kreck TC, Krueger MA, Altemeier WA, Sinclair SE, Robertson HT, Shade ED, Hildebrandt J, Lamm WJE, Frazer DA, Polissar NL, Hlastala MP. Determination of regional ventilation and perfusion in the lung using xenon and computed tomography. *J Appl Physiol* 91:1741-1749, 2001.
- 117 Park DR, Sherbin VL, Goodman M, Pacifico A, Rubinfeld GD, Polissar NL, Root RK. The etiology of community-acquired pneumonia at an urban hospital: the influence of human immunodeficiency virus infection and initial severity of illness. *J Infectious Diseases* 184:268-77, 2001.

- 118 Zhang S, Hatsukami TS, Polissar NL, Han C, Yuan C. Comparison of carotid vessel wall area measurements using three different contrast-weighted black blood MR imaging techniques. *Magnetic Resonance Imaging* 19:795-802, 2001.
- 119 Yuan C, Mitsumori LM, Ferguson MS, Polissar NL, Echelard D, Ortiz G, Small R, Davies JW, Kerwin WS, Hatsukami TS. In vivo accuracy of multispectral magnetic resonance imaging for identifying lipid-rich necrotic cores and intraplaque hemorrhage in advanced human carotid plaques. *Circulation* 104:2051-2056, 2001.
- 120 Yuan C, Ferguson MS, Kerwin WS, Polissar N, Zhang S, Cai J, Hatsukami TS. Contrast enhanced high resolution MRI for atherosclerotic carotid artery tissue characterization. *J Magn Reson Imaging*, 15(1):62-67, January 2002.
- 121 Malins DC; Johnson PM; Wheeler TM; Barker EA; Polissar NL; Vinson MA. Age-related radical-induced DNA damage is linked to prostate cancer. *Cancer Res* 61(16):6025-8, 2001.
- 122 Huebler M, Souders JE, Shade ED, Polissar NL, Schimmel C, Hlastala MP. Effects of vaporized perfluorocarbon on pulmonary blood flow and ventilation/perfusion distribution in a model of acute respiratory distress syndrome. *Anesthesiology* 95(6):1414-21, 2001.
- 123 Yuan C, Zhang SX, Polissar NL, Echelard DE, Ortiz G, Davis, JW, Ellington E, Ferguson MS, Hatsukami TS. Identification of fibrous cap rupture with magnetic resonance imaging is highly associated with recent TIA or stroke. *Circulation*, 104(17): Sup II-376, 2001.
- 124 Huebler M, Souders JE, Shade ED, Polissar NL, Bleyl JU, Hlastala MP. Effects of perfluorocarbon vapor on relative blood flow distribution in an animal model of surfactant-depleted lung injury. *Crit Care Med* 30:422-427, 2002.
- 125 Kelly KE, Phillips CL, Cain KC, Polissar NL, Kelly PB: Evaluation of a noninvasive monitor to reduce falls in nursing home patients. *J Am Med Dir Assoc*, 3:377-82, 2002.
- 126 Souders JE, Doshier JB, Polissar NL, Hlastala MP. Spatial distribution of venous gas emboli in the lungs. *J Appl Physiol* 87(5):1937-47, 1999.
- 127 Yuan C, Polissar NL, Xu DX, Hatsukami TS. Visualization of fibrous cap thickness and rupture in human atherosclerotic carotid plaque. *Circulation* 100(18):I-251, 1999.
- 128 Pavlin DJ, Chen C, Penaloza DA, Polissar NL, Buckley FP. Pain as a factor complicating recovery and discharge after ambulatory surgery. *Anesth Analg* 95:627-34, 2002.
- 129 Khan A, Khan SR, Shankles B, Polissar NL. Relative sensitivity of the Montgomery-Asberg Depression rating scale, the Hamilton Depression rating scale and the Clinical Global Impressions rating scale in antidepressant clinical trials. *International Clinical Psychopharmacology* 17:1-6, 2002.
- 130 Kleinman BP, Millery M, Scimeca M, Polissar NL. Predicting long-term treatment Utilization among addicts entering detoxification: the contribution of help-seeking models. *Journal of Drug Issues* 32 (1):209-230, 2002.
- 131 Millery M, Kleinman BP, Polissar NL, Millman RB, Scimeca M. Detoxification as a gateway to long-term treatment: Assessing two interventions. *Journal of Substance Abuse Treatment*, 23(3):183-90, 2002.
- 132 Mulroy MF, Salinas FV, Larkin KL, Polissar NL. Ambulatory surgery patients may be discharged before voiding after short-acting spinal and epidural anesthesia. *Anesthesiology*, 97(20):315-9. 2002.

- 133 Zhang S, Cai J, Luo Y, Han C, Polissar NL, Hatsukami TS, Yuan C. Measurement of carotid wall volume and maximum area using contrast-enhanced 3D MR imaging: initial observations. *Radiology*, 228:200-205, 2003.
- 134 Cai JM, Hatsukami TS, Ferguson MS, Small R, Polissar NL, Yuan C. Classification of human carotid atherosclerotic lesions with in vivo multicontrast magnetic resonance imaging. *Circulation*. 2002; 106: 1368-1373.
- 135 Neal JM, McDonald SB, Larkin KL, Polissar NL: Suprascapular nerve block prolongs analgesia after nonarthroscopic shoulder surgery but does not improve outcome. *Anesth Analg*, 96:982-6, 2003.
- 136 Luo Y, Polissar N, Han C, Yarnykh V, Kerwin WS, Hatsukami TS, Yuan C: Accuracy and uniqueness of three in vivo measurements of atherosclerotic carotid plaque morphology with black blood MRI. *Magnetic Resonance in Medicine*. 50(1):75-82, 2003.
- 137 Malins DC, Johnson PM, Barker EA, Polissar NL, Wheeler TM. Cancer-related changes in prostate DNA as men age and early identification of metastasis in primary prostate tumors. *Proceedings of the National Academy of Sciences*, 10 (9): 5401-5406, 2003.
- 138 Hlastala MP, Lamm WJ, Karp A, Polissar NL, Starr IR, Glenn RW. Spatial distribution of hypoxic pulmonary vasoconstriction in the supine pig. *J Appl Physiol*. 96:1589-99, 2004.
- 139 Lenart S, Polissar NL. Comparison of 2 methods of postpyloric placement of enteral feeding tubes. *American Journal of Critical Care*. 12 (4): 357-360. 2003.
- 140 Sechena R, Liao S, Lorenzana R, Nakano C, Polissar N, Fenske R. Asian American and Pacific Islander seafood consumption – a community-based study in King County, Washington. *J of Exposure Analysis and Environ Epidemiology*, (13): 256-266. 2003.
- 141 Malins DC, Anderson KM, Polissar NL, Ostrander GK, Knobbe ET, Green VM, Gilman NK, Spivak JL. Models of granulocyte DNA structure are highly predictive of myelodysplastic syndrome. *The National Academy of Sciences*, 101(14):5008-5011. 2004.
- 142 Smith KD, Wrenshall LE, Nicosia RF, Pichler R, Marsh CL, Alpers CE, Polissar N, Davis CL. Delayed graft function and cast nephropathy associated with tacrolimus plus rapamycin use. *J Am Soc Nephrol*. (4):1037-45. April 2003.
- 143 Chu B, Kampschulte A, Ferguson MS, Kerwin WS, Yarnykh VL, O'Brien KD, Polissar NL, Hatsukami TS, Yuan C. Hemorrhage in the atherosclerotic carotid plaque: a high-resolution MRI study. *Stroke*, (35):1079-1084. 2004.
- 144 Chu B, Hatsukami TS, Polissar NL, Zhao XQ, Kraiss LW, Parker DL, Waterton JC, Raichlen JS, Hamar W, Yuan C. Determination of carotid artery atherosclerotic lesion type and distribution in hypercholesterolemic patients with moderate carotid stenosis using noninvasive magnetic resonance imaging. *Stroke*, 35:2444-2448, 2004.
- 145 Kohles SS, Kohles DA, Karp AP, Erlich VM, Polissar NL. Time-dependent surgical outcomes following cauda equina syndrome diagnosis: comments on a meta-analysis. *Spine*. 29(11):1281-7. June 2004.
- 146 Hatsukami TS, Kerwin W, Cai JM, Kang XJ, Polissar N, Ferguson M, Small R, Zhao XQ, Yuan C. High-resolution magnetic resonance imaging of carotid atherosclerosis. *International Congress Series*. 1262: 95-98. May 2004.

- 147 Lamm WJE, Starr IR, Neradilek B, Polissar NL, Glenny RW, Hlastala MP. Hypoxic pulmonary vasoconstriction is heterogeneously distributed in the prone dog. *Respiratory Physiology and Neurobiology* 144: 281-294, 2004.
- 148 Schimmel C, Bernard SL, Anderson J, Polissar NL, Lakshminarayan, Hlastala M. Soluble gas exchange in the pulmonary airways of sheep. *J Appl Phys* 97: 1702-1708, 2004.
- 149 Kampschulte A, Ferguson MS, Kerwin WS, Polissar NL, Chu C, Saam T, Hatsukami TS, Yuan C. Differentiation of intraplaque versus juxtaluminal hemorrhage/thrombus in advanced human carotid atherosclerotic lesions by in vivo MRI. *Circulation*. 110(20): 3239-44, November 2004.
- 150 Standish LJ, Fitzpatrick AL, Berger J, Jung K, Sanders F, Polissar N, Brumback B, Calabrese C. Mind-body therapies and quality of life in HIV-1+ individuals. *Int J of Naturopathy* Sept. 2004.
- 151 Saam T, Ferguson, MT; Yarnykh, VL, Takaya N, Xu D; Polissar NL, Hatsukami TS, Yuan C. Quantitative evaluation of carotid plaque composition by in vivo MRI. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 25(1): 234-9, January 2005.
- 152 Domino KB, Hornbein TF, Polissar NL, Renner G, Johnson J, Alberti S, Hanks L. Risk factors for relapse in health professionals with substance use disorders. *J Am Med Assoc* 293: 1453-1460, 2005.
- 153 Starr IR, Lamm WJE, Neradilek B, Polissar N, Glenny RW, Hlastala MP. Regional hypoxic pulmonary vasoconstriction in prone pigs. *J Appl Physiol*. 99: 363-370, 2005.
- 154 Chu B, Xue-Qiao Z, Saam T, Yarnykh VL, Kerwin WS, Flemming KD, Huston J, Insull W, Morrisett JD, Rand SD, DeMarco KJ, Polissar NL, Balu N, Cai J, Kampschulte A, Hatsukami TS, Yuan C. Feasibility of in vivo, multicontrast-weighted MR imaging of carotid atherosclerosis for multicenter studies. *J of Magnetic Resonance Imaging* 21:809-817, 2005.
- 155 Kowdley K, Brandhagen DJ, Gish RG, Bass NM, Weinstein J, Schilsky ML, Fontana RJ, McCashland T, Cotler SJ, Bacon BR, Keeffe EB, Gordon F, Polissar NL. Survival after liver transplantation in patients with hepatic iron overload: The National Hemochromatosis Transplant Registry. *Gastroenterology*. 129 (2): 494-503, August 2005.
- 156 Saam T, Cai J, Cai YQ, An NY, Kampschulte A, Xu D, Kerwin WS, Polissar NL, Hatsukami TS, Yuan C. Carotid plaque composition differs between ethno-racial groups: An MRI pilot study comparing mainland Chinese and American Caucasian patients. *Arterioscler Thromb Vasc Biol*. 25(3): 611-6, March 2005.
- 157 Olson L, Kisthard J, Cravero L, Fung J, Egtesad B, Savo A, Levy A, Polissar NL, Marks W. Livers transplanted from donors after cardiac death occurring in the ICU or the operating room have excellent outcomes. *Transplantation Proceedings*. 37(2): 1188-1193. March 2005.
- 158 Takaya N, Yuan C, Chu BC, Saam T, Polissar NL, Isaac C; McDonough J, Ferguson MS, Hatsukami TS. Presence of intraplaque hemorrhage stimulates progression of carotid atherosclerotic plaques: A high-resolution MRI study. *Circulation*. 111: 2768-2775. May 2005.
- 159 Kahn J, Andersson L, Karir V, Polissar N, Neff M, Rubinfeld G. Low tidal volume ventilation does not increase sedation use in patients with acute lung injury. *Critical Care Medicine*. 33(4):766-771, April 2005.

- 160 Hlastala MP, Polissar NL, Oberman S. Statistical evaluation of standardized field sobriety tests. *J Forensic Sciences*. 50(3): 662-669, May 2005.
- 161 Juarez T, Isenhath SN, Polissar NL, Sabath DE, Wood B, Hanke D, Haycox, CL, Wood GS, Olerud JE. Analysis of T-cell receptor gene rearrangement for predicting clinical outcome in patients with CTCL: A comparison of Southern Blot and PCR methods. *Archives of Dermatology*. 141: 1107-1113. September 2005.
- 162 Jianming C, Hatsukami TS, Ferguson MS, Kerwin WS, Saam T, Chu B, Takaya N, Polissar NL, Yuan C. In vivo quantitative measurement of intact fibrous cap and lipid-rich necrotic core size in atherosclerotic carotid plaque: Comparison of high-resolution, contrast-enhanced magnetic resonance imaging and histology. *Circulation*. 112: 3437-3444, November 2005.
- 163 Saam T, Kerwin WS, Chu B, Cai J, Kampschulte A, Hatsukami TS, Zhao X, Polissar NL, Yarnykh VL, Flemming K, Huston J, Insull W, Morrisett JD, Rand SD, DeMarco KJ, Yuan C. Sample size calculation for clinical trials using magnetic resonance imaging for the quantitative assessment of carotid atherosclerosis. *Journal of Cardiovascular Magnetic Resonance*. 7(5): 799-808. 2005.
- 164 Takaya N, Cai J, Ferguson MS, Yarnykh VL, Chu B, Saam T, Polissar NL, Sherwood J, Cury RC, Anders RJ, Broschat KO, Hinton D, Furie KL, Hatsukami TS, Yuan C. Intra- and interreader reproducibility of magnetic resonance imaging for quantifying the lipid-rich necrotic core is improved with gadolinium contrast enhancement. *Journal of Magnetic Resonance Imaging*. 24 (1): 203-210. July 2006.
- 165 Oelschlager BK, Pellegrini CA, Hunter J, Soper N, Brunt M, Sheppard B, Jobe B, Polissar N, Mitsumori L, Nelson J, Swanstrom L. Biologic prosthesis reduces recurrence after laparoscopic paraesophageal hernia repair: A multicenter, prospective, randomized trial. *Annals of Surgery*. Scientific Papers of the 126th Annual Meeting of the American Surgical Association. 244(4):481-490. October 2006.
- 166 Saam T, Cai J, Ma L, Cai Y, Ferguson MS, Polissar NL, Hatsukami TS, Yuan C. Comparison of symptomatic and asymptomatic atherosclerotic carotid plaque features with in vivo MR imaging. *Radiology*. 240: 464-472. October 2006.
- 167 Kerwin WS, O'Brien KD, Ferguson MS, Polissar NL, Hatsukami TS, Yuan C. Inflammation in carotid atherosclerotic plaque: a dynamic contrast-enhanced MR imaging study. *Radiology*. 241 (2): 459-468. November 2006.
- 168 Takaya N, Yuan C, Chu B, Saam T, Underhill H, Cai J, Tran N, Polissar NL, Isaac C, Garden G, Marvilla K, Hashimoto B, Hatsukami TS. Association between carotid plaque characteristics and subsequent ischemic cerebrovascular events: A Prospective Assessment with Magnetic Resonance Imaging. *Stroke*. 37:818-823. 2006.
- 169 Tsang J, Lamm W, Neradilek B, Polissar NL, Hlastala MP. Endothelin receptor blockade does not improve hypoxemia following acute pulmonary thromboembolism. *Journal of Applied Physiology*. 102:762-771. Feb 2007.
- 170 Glenny R, Bernard SL, Luchtel D, Neradilek B, Polissar NL. The spatial-temporal redistribution of pulmonary blood flow with postnatal growth. *Journal of Applied Physiology*. 102: 1281-1288. March 2007.
- 171 Foley M, Silverstein B, Polissar N. The economic burden of carpal tunnel syndrome: long-term earnings of CTS claimants in Washington state. *American Journal of Industrial Medicine*. 50:155-172. March 2007.

- 172 Gibson KD, Ferris BL, Polissar N, Neradilek B, Pepper D. Endovenous laser treatment of the small saphenous vein: efficacy and complications. *Journal of Vascular Surgery*. 45 (4): 795-803. April 2007.
- 173 Phan BA, Chu B, Polissar NL, Hatsukami TS, Yuan C, Zhao X. Association of high-density lipoprotein levels and carotid atherosclerotic plaque characteristics by magnetic resonance imaging. *The International Journal of Cardiovascular Imaging*. 23(3):337-342. June 2007.
- 174 Petersson J, Rohdin M, Sánchez-Crespo A, Nyrén S, Jacobsson H, Larsson SA, Lindahl S, Linnarsson D, Neradilek B, Polissar NL, Glenn RW, Mure M. Posture primarily affects lung tissue distribution with minor effect on blood flow and ventilation. *Respiratory Physiology & Neurobiology*. 156 (3):293-303. June 2007.
- 175 Zhao XQ, Phan BA, Chu B, Bray F, Moore AB, Polissar NL, Dodge JT, Lee CD, Hatsukami TS, Yuan C. Testing the hypothesis of atherosclerotic plaque lipid depletion during lipid therapy by magnetic resonance imaging: study design of Carotid Plaque Composition Study. *American Heart Journal*. 154 (2): 239-46, August 2007.
- 176 Saam T, Hatsukami TS, Yarnykh VL, Hayes CE, Underhill H, Chu B, Takaya N, Cai J, Kerwin WS, Xu D, Polissar NL, Neradilek B, Hamar WK, Maki J, Shaw DW, Buck RJ, Wyman B, Yuan C. Reader and platform reproducibility for quantitative assessment of carotid atherosclerotic plaque using 1.5T Siemens, Phillips, and General Electric scanners. *Journal of Magnetic Resonance Imaging*, 26: 344-352. August 2007.
- 177 Robertson HT, Neradilek B, Polissar NL, Glenn RW. Sporadic coordinated shifts of regional ventilation and perfusion in juvenile pigs with normal gas exchange. *Journal of Physiology*. 583 (2): 743-752. September 2007.
- 178 Lamm WJ, Neradilek B, Polissar NL, Hlastala MP. Pulmonary response to 3 h of hypoxia in prone pigs. *Respiratory Physiology and Neurobiology*. 159 (1): 76-84. October 2007.
- 179 Hopkins SR, Kleinsasser AS, Bernard SL, Loeckinger A, Falor E, Neradilek B, Polissar NL, Hlastala MP. Hypoxia has a greater effect than exercise on the redistribution of pulmonary blood flow in swine. *Journal of Applied Physiology*. 103: 2112-2119. December 2007.
- 180 Sarm T, Underhill HR, Chu B, Takaya N, Cai J, Polissar NL, Yuan C, Hatsukami TS. Prevalence of American Heart Association type VI carotid atherosclerotic lesions identified by magnetic resonance imaging for different levels of stenosis as measured by duplex ultrasound. *J of American College of Cardiology*. 51 (10): 1014-21. March 2008.
- 181 Syrjala KL, Abrams JR, Polissar NL, Hansberry J, Robison J, DuPen S, Stillman M, Fredrickson M, Rivkin S, Feldman E, Gralow J, Rieke JW, Raish RJ, Lee DJ, Cleeland CS, DuPen A. Patient training in cancer pain management using integrated print and video materials: a multisite randomized controlled trial. *Pain*. 135(1-2): 175-86. March 2008.
- 182 Underhill HR, Yuan C, Zhao X, Kraiss LW, Parker DL, Saam T, Chu B, Takaya N, Liu F, Polissar NL, Neradilek B, Raichlen JS, Cain VA, Waterton JC, Hamar W, Hatsukami TS. Effect of rosuvastatin therapy on carotid plaque morphology and composition in moderately hypercholesterolemic patients: A high-resolution magnetic resonance imaging trial. *American Heart Journal*. 155 (3): 584. March 2008.
- 183 DeLong WB, Polissar NL, Neradilek B. Timing of surgery in cauda equina syndrome with urinary retention: meta-analysis of observational studies. *Journal of Neurosurgery: Spine*. 8 (4): 305-320. April 2008.

- 184 Saam T, Cai J, Cai Y, Ma L, Ferguson MS, Polissar NL, Hatsukami TS, Yuan C. A non-invasive imaging approach to identify the high-risk atherosclerotic plaque in bilateral carotid disease using multi-contrast MRI. *Radiology*. In Press.
- 185 Snyder M, Goss C, Neradilek B, Polissar N, Mosenifar Z, Wise R, Fishman A, O Benditt J. Changes in arterial oxygenation and self-reported oxygen use following lung volume reduction surgery. *American Journal of Critical Care Medicine*, 2008. In Press.
- 186 George E, McClain SE, Slingluff CL, Polissar NL, Patterson JW. Sub-classification of desmoplastic melanoma: pure and mixed variants have significantly different capacities for lymph node metastasis. *Journal of Cutaneous Pathology*. 2008. In Press.
- 187 Petersson J, Rohdin M, Sanchez-Crespo A, Nyren S, Larsson S, Jacobsson H, Lindahl S, Linnarsson D, Neradilek B, Polissar N, Robb G, Mure M. Gravity redistributes regional blood flow and ventilation in the upright posture. *Journal of Applied Physiology*. In Press.
- 188 Underhill H, Yarnykh VL, Hatsukami TS, Wang J, Balu N, Hayes CE, Oikawa M, Yu W, Xu D, Chu B, Wyman B, Polissar NL, Yuan C. Carotid plaque morphology and composition: a comparison between 1.5 and 3.0 Tesla magnetic field strengths. *Radiology*, 248(2): 550-560, 2008.
- 189 Clinton J, Franta A, Polissar N, Neradilek B, Mounce D, Fink H, Schousboe, J, Matsen F. Proximal Humerus Fracture as a Risk Factor for Subsequent Hip Fractures: Timing is Everything. *J Bone and Joint Surg*. In press, 2008.
- 190 Silverstein B, Foley M, Polissar N, Neradilek B. Impact of Implementing the Washington State Ergonomics Rule on Employer Reported Risk Factors and Hazard Reduction Activity. *Am. J Industrial Medicine*. In press, 2008.
- 191 Einstein D, Neradilek B, Polissar N, Minard K, Wallis C, Fanucchi M, Carson J, Kuprat A, Kabilan S, Jacob R, Corley R. An Automated Self-similarity Analysis of the Pulmonary Tree of the Sprague-Dawley Rat. *Anatomical Record*. In press, 2008.
- 192 Petersson J, Rohdin M, Sánchez-Crespo A, Nyrén S, Jacobsson H, Larsson SA, Lindahl SGE, Linnarsson D, Neradilek B, Polissar NL, Glenn RW, and Mure M. Regional lung blood flow and ventilation in upright humans studied with quantitative spect. *Resp. Physiol. Neurobiol.* (in press).
- 192 Fan ZJ, Silverstein BA, Bao S, Bonauto DK, Howard NL, Spielholz PO, Smith CK, Polissar NL, Viikari-Juntura E. Quantitative exposure-response relations between physical workload and prevalence of lateral epicondylitis in a working population. *Am Journal Industrial Medicine*, 2009 (in press).

Major Technical Reports (peer-reviewed)

- 1 Polissar L, Bolgiano D, Burbacher T, et al. Ruston/Vashon Arsenic exposure pathways study. School of Public health and Community Medicine, University of Washington, Seattle, Washington, March 31, 1987.
- 2 Toy, KA, Polissar NL, Liao, S, Mittelstaedt GD. A fish consumption survey of the Tulalip and Squaxin Island Tribes of the Puget Sound Region. Tulalip Tribes, Department of the Environment, Marysville, Washington, 1996.
- 3 Sechena R, Nakano C, Liao S, Polissar N, Lorenzana R, Truong S, Fenske R.: Asian and Pacific Islander seafood consumption study in King County, WA. EPA report #910/R-99-003, Seattle, May 1999.
- 4 Winget, M, Polissar N. Final Research Report of the King County Natural Medicine Clinic Project. Axio Research Corporation, Seattle, March 1999.
- 5 Duncan M, Polissar NL, Liao S, LaFlamme D (writing committee). Cited as: The Suquamish Tribe. Fish consumption survey of the Suquamish Indian Tribe of the Port Madison Indian Reservation, Puget Sound Region. The Suquamish Tribe. Suquamish, Washington, 2000.
- 6 Polissar NL, Cain K, Lumley T. Time trends in pcb concentrations in sediment and fish: Lower Fox River, Wisconsin. Prepared for Wisconsin Department of Natural Resources by The Mountain-Whisper-Light Statistical Consulting, Seattle, Washington. March 30, 2001