

The Interagency Workgroup on Multiple Chemical Sensitivity August 24, 1998

X. References

Abrams H, et al. Letters to the editor. *Arch Environ Health* 51(4):338-340, 1996.

Agency for Toxic Substances and Disease Registry/National Institute for Occupational Safety and Health. *Case studies in environmental medicine: taking an exposure history*. Atlanta: U.S. Department of Health and Human Services, 1992.

Agency for Toxic Substances and Disease Registry. *Proceedings of the Conference on Low- Level Exposure to Chemicals and Neurobiologic Sensitivity*. Baltimore, MD, April 6-7, 1994. *Toxicol Ind Health* 10 (4/5), 1994.

Albright JF, and Goldstein RA. Is there evidence of an immunologic basis for MCS? *Toxicol Ind Health* 8(4):215-219, 1992.

American Academy of Allergy and Immunology, Executive Committee: *Clinical ecology*. *J Allergy Clin Immunol* 78:269-270, 1986.

American Academy of Allergy, Asthma and Immunology. *Idiopathic environmental illnesses*. *Academy News*, June/July:12-13, 1997.

American Academy of Environmental Medicine. *An overview of the philosophy of the American Academy of Environmental Medicine*. Denver, 1992.

American College of Physicians. *Clinical ecology*. *Ann Intern Med* 111(2):168-178, 1989.

American College of Occupational and Environmental Medicine. *ACOEM statement about distinctions among indoor air quality, MCS, and ETS*. ACOEM, 1991.

American Lung Association, American Medical Association, US Consumer Product Safety Commission, US Environmental Protection Agency. *Indoor air pollution: an introduction for health professionals*. Washington, DC: Government Printing Office, 1995.

American Medical Association. *Clinical ecology*. *JAMA* 268(24):3465-3467, 1992.

American Psychiatric Association. *Diagnostic and statistical manual of mental disorders: DSM-III-R*/American Psychiatric Association. 3rd ed., rev. Washington, DC, 1987.

Americans with Disabilities Act of 1990, Public Law 101-336; 42 USC 12101 et seq., 1990.

Antelman SM. Time-dependent sensitization as the cornerstone for a new approach to pharmacotherapy: drugs as foreign/stressful stimuli. *Drug Development Research* 14:1-30, 1988.

Antelman SM, Kocan D, Knopf S, Edwards DJ, Caggiula AR. One brief exposure to a psychological stressor induces long-lasting, time-dependent sensitization of both the cataleptic and neurochemical responses to haloperidol. *Life Sci* 51:261-266, 1992.

Ashford NA, Miller CS. *Chemical exposures: low levels and high stakes*. New York: Van Nostrand Reinhold, 1991.

Ashley DL, Bonin MA, Cardinali FL, McCraw JM, Wooten JV. Blood concentrations of volatile organic compounds in a nonoccupationally exposed US population and in groups with suspected exposure. *Clin Chem* 40(7):1401-4, 1994.

Association of Occupational and Environmental Clinics. *Advancing the Understanding of Multiple Chemical Sensitivity: Proceedings of the AOEC Workshop on Multiple Chemical Sensitivity*. Washington, DC, September 20-21, 1991. *Toxicol Ind Health* 8(4), 1992.

Bachner P, Hamlin W. Federal regulation of clinical laboratories and the Clinical Laboratory Improvement Amendments of 1988B Part I. *Clin Lab Med* 13(3):739-52, 1993a.

Bachner P, Hamlin W. Federal regulation of clinical laboratories and the Clinical Laboratory Improvement Amendments of 1988C Part II. *Clin Lab Med* 13(4):987-94, 1993b.

Baldwin CM, Bell IR, O'Rourke MK, Lebowitz MD. The association of respiratory problems in a community sample with self-reported chemical intolerance. *Eur J Epidemiol* 13:547-552, 1997.

Bascom R. *Chemical hypersensitivity syndrome study*. Baltimore: Department of the Environment, 1989.

Bascom R, Kulle T, Kagey-Sobotka A, Proud D. Upper respiratory tract environmental tobacco smoke sensitivity. *Am Rev Respir Dis* 143:1304-1311, 1991.

Bascom R. *Differential responsiveness to irritant mixtures*. *Ann N Y Acad Sciences* 641:225-247, 1992.

Bascom R, Meggs WJ, Frampton M, Hudnell K, Kilburn K, Kobal G, et al. Neurogenic inflammation: with additional discussion of central and perceptual integration of nonneurogenic inflammation. *Environ Health Perspect* 105(Suppl 2): 531-537, 1997.

Bell IR, Miller CS, Schwartz GE. An olfactory-limbic model of multiple chemical sensitivity syndrome: possible relationships to kindling and affective spectrum disorders. *Biol Psychiatry* 32:218-242, 1992.

Bell IR, Schwartz GE, Peterson JM, Amend D. Self-reported illness from chemical odors in young adults without clinical syndromes or occupational exposures. *Arch Environ Health* 48(1): 6-13, 1993a.

Bell IR, Schwartz GE, Peterson JM, Amend D. Symptom and personality profiles of young adults from a college student population with self-reported illness from foods and chemicals. *J Am Coll Nutr* 12(6):693-702, 1993b.

Bell IR, Schwartz GE, Peterson JM, Amend D, Stini W. Possible time-dependent sensitization to xenobiotics: self-reported illness from chemical odors, foods, and opiate drugs in an older adult population. *Arch Environ Health* 48(5):315-327, 1993c.

Bell IR, Schwartz GE, Amend D, Peterson JM, Stini WA. Sensitization to early life stress and response to chemical odor in older adults. *Biol Psychiatry* 35:857-63, 1994.

Bell IR, Peterson JM, Schwartz GE. Medical histories and psychological profiles of middle-aged women with and without self-reported illness from environmental chemicals. *J Clin Psychiatry* 56(4):151-160, 1995a.

Bell IR, Hardin EE, Baldwin CM, Schwartz GE. Increased limbic system symptomatology and sensitizability of young adults with chemical and noise sensitivities. *Environ Res* 70:84-97, 1995b.

Bell IR, Amend D, Peterson JM, Schwartz GE, Miller CS. Neuropsychiatric and somatic characteristics of young adults with and without self-reported chemical odor intolerance and chemical sensitivity. *Arch Environ Health* 51(1):9-20, 1996a.

Bell IR, Wyatt JK, Bootzin RR, Schwartz GE. Slowed reaction time performance on a divided attention task in elderly with environmental chemical odor intolerance. *Int J Neurosci* 84:127-134, 1996b.

Bell IR, Bootzin RR, Davis TP, Hau V, Ritenbaugh C, Johnson KA, et al. Time-dependent sensitization of plasma beta-endorphin in community elderly with self-reported environmental chemical odor intolerance. *Biol Psychiatry* 40:134-143, 1996c.

Bell IR, Bootzin RR, Ritenbaugh C, Wyatt JK, DeGiovanni G, Kulinovich T, et al. A polysomnographic study of sleep disturbance in community elderly with self-reported environmental chemical odor intolerance. *Biol Psychiatry* 40:123-133, 1996d.

Bell IR, Walsh ME, Goss A, Gersmeyer J, Schwartz GE, Kanof P. Cognitive dysfunction and disability in geriatric veterans with self-reported intolerance to environmental chemicals. *J Chronic Fatigue Syndrome* 3(3):5-42, 1997a.

Bell IR, Schwartz GE, Baldwin CM, Hardin EE, Klimas NG, Kline JP, et al. Individual differences in neural sensitization and the role of context in illness from low-level environmental chemical exposures. *Environ Health Perspect* 105(Suppl 2): 457-466, 1997b.

Bell IR, Rossi J, Gilbert ME, Kobal G, Morrow LA, Newlin DB, et al. Testing the neural sensitization and kindling hypothesis for illness from low levels of environmental chemicals. *Environ Health Perspect* 105(Suppl 2): 539-547, 1997c.

Bell IR, Schwartz GE, Bottzin RR, Wyatt JK. Time-dependent sensitization of heart rate and blood pressure over multiple laboratory sessions in elderly individuals with chemical odor intolerance. *Arch Environ Health* 52(1):6-17, 1997d.

Bell IR, Kline JP, Schwartz GE, Peterson JM. Quantitative EEG patterns during nose versus mouth inhalation of filtered room air in young adults with and without self-reported chemical odor intolerances. *Int J Psychophysiol* (in press).

Bell IR, Schwartz GE, Hardin EE, Baldwin CM, Kline JP. Differential resting Quantitative electroencephalographic alpha patterns in women with environmental chemical intolerance, depressives, and normals. *Biol Psychiatry* (in press).

Black DW, Rathe A, Goldstein RB. Environmental illness: a controlled study of 26 subjects with "20th century disease." *JAMA* 264:3166-3170, 1990.

Bovard J. Olfactory correctness. *Heterodoxy* 3:6, 1995.

Brodsky CM. 'Allergic to everything': a medical subculture. *Psychosomatics* 24:731-742, 1983.

Brody DJ, Pirkle JL, Kramer RA, Flegal KM, Matte TD, Gunter EW, et al. Blood lead levels in the US population: phase I of the Third National Health and Nutrition Examination Survey (NHANES III, 1988 to 1991). *JAMA* 272(4):277-283, 1994.

Brooks SM, Weiss MA, Bernstein IL. Reactive airways dysfunction syndrome (RADS). *Chest* 88:376-384, 1985.

Buchwald D, Garrity D. Comparison of patients with chronic fatigue syndrome, fibromyalgia, and multiple chemical sensitivities. *Arch Intern Med* 154:2049-2053, 1994.

California Department of Health Services. Evaluating individuals reporting sensitivities to multiple chemicals. CDHS, 1996.

Centers for Disease Control and Prevention. Guidelines for the performance of CD4+ T-cell determinations in persons with human immunodeficiency virus infection. *MMWR* 41(No. RR-8), 1992.

Chester AC. Environmental illness. *JAMA* 265(18):2335, 1991.

Clean Sites. Facilitator's report: Expert Panel on Multiple Chemical Sensitivity, Chicago, April 13-14, 1993: Clean Sites, 1993.

Cohen N, Kehrl H, Berglund B, O'Leary A, Ross G, Seltzer J, et al. Psychoneuroimmunology. *Environ Health Perspect* 105(Suppl 2): 527-529, 1997.

Cullen MR. The worker with multiple chemical sensitivities: an overview. *Occup Med* 2(4) 655-661, 1987.

Cullen MR, Pace PE, Redlich CA. The experience of the Yale occupational and environmental medicine clinics with multiple chemical sensitivities, 1986-1991. *Toxicol Ind Health* 8(4):15-19, 1992.

Cullen MR. Low-level environmental exposures. In: Rosenstock L, Cullen MR, eds. *Textbook of clinical occupational and environmental medicine*. Philadelphia: W.B. Saunders Company, 1994.

Dager SR, Steen RG. Applications of magnetic resonance spectroscopy to the investigation of neuropsychiatric disorders. *Neuropsychopharmacology* 6:249-266, 1992.

Davidoff LL. Models of multiple chemical sensitivities (MCS) syndrome: using empirical data (especially interview data) to focus investigations. *Proceedings of the AOEC Workshop on Multiple Chemical Sensitivity*. Washington, DC, September 20-21, 1991. *Toxicol Ind Health* 8(4): 229-247, 1992.

Davidoff AL, Fogarty L. Psychogenic origins of multiple chemical sensitivities syndrome: a critical review of the research literature. *Arch Environ Health* 49:316-325, 1994.

Davidoff AL, Keyl P. Symptoms and health status in individuals with multiple chemical sensitivities syndrome from four reported sensitizing exposures and a general population comparison group. *Arch Environ Health* 51:201-213, 1996.

Dayan AD. Letters to the editor. *Arch Environ Health* 51(4):342, 1996.

Doty RL, Deems DA, Frye RE, Pelberg R, Shapiro A. Olfactory sensitivity, nasal resistance and autonomic function in patients with multiple chemical sensitivities. *Arch Otolaryngol Head Neck Surg* 114:1422-1427, 1988.

Dyer RS, Sexton K. What can research contribute to regulatory decisions about the health risks of multiple chemical sensitivity? *Reg Toxicol Pharmacol* 24:S139-S151, 1996.

Dyer RS. Multiple chemical sensitivity: Where's the research? *Human and Ecological Risk Assessment* 3:141-149, 1997.

Eisenberg J. Report to congress on research on multiple chemical exposures and veterans with gulf war illnesses. Washington, DC: Department of Health and Human Services. January, 1998.

Fiedler N, Maccia C, Kipen H. Evaluation of chemically sensitive patients. *J Occup Environ Med* 34(5): 529-538, 1992.

Fiedler N, Kipen H, Kelly-McNeill K. Odor perception and chemical sensitivity [poster presentation]. 2nd International Congress on Hazardous Waste: Impact on Human and Ecological Health. Atlanta, June 5-8, 1995.

Fiedler N, Kipen H, DeLuca J, Kelly-McNeil K, Natelson B. A controlled comparison of multiple chemical sensitivities and chronic fatigue syndrome. *Psychosom Med* 58:38-49, 1996.

Fiedler N, Kipen H. Chemical sensitivity: the scientific literature. *Environ Health Perspect* 105(Suppl 2):409-415, 1997.

Friedman M, Simon G, DeLuca J, Pennebaker J. Questions and answers #3. *Toxicol Ind Health* 10(4/5):523-535, 1994.

Fukuda K, Straus SE, Hickie I, Sharpe MC, Dobbins JG, Komaroff A, et al. The chronic fatigue syndrome: a comprehensive approach to its definition and study. *Ann Intern Med* 121:953-959, 1994.

Gilbert ME. Repeated exposure to lindane leads to behavioral sensitization and facilitates electrical kindling. *Neurotoxicol Teratol* 17(2):131-141, 1995.

Goldman LR, et al. Letters to the editor. *Arch Environ Health* 51(4):342, 1996.

Gots RE. Multiple chemical sensitivities-public policy. *Clin Toxicol* 33(2):111-113, 1995.

Gots RE. Multiple chemical sensitivities: distinguishing between psychogenic and toxicodynamic. *Reg Toxicol Pharmacol* 24(1):8-15, 1996.

Grammar LC, Harris KE, Shaughnessy MA, Sparks P, Ayars GH, Altman LC. Clinical and immunologic evaluation of 37 workers exposed to gaseous formaldehyde. *J Allergy Clin Immunol* 86:177-181, 1990.

Hahn M, Bonkovsky HL. Multiple chemical sensitivity syndrome and porphyria: a note of caution and concern.. *Arch Intern Med* 157:281-285, 1997.

Heuser G, Wojdani A, Heuser S. Diagnostic markers of multiple chemical sensitivity. *Multiple chemical sensitivities: addendum to biologic markers in immunotoxicology*. Washington, DC: National Academy Press, 1992.

Hileman B. Special report: multiple chemical sensitivity. *Chemical and Engineering News* 69(29): 26-42, 1991.

Hill RH, Ashley DL, Head SL, Needham LL, Pirkle JL. p-Dichlorobenzene exposure among 1000 adults in the United States. *Arch Environ Health* 50(4):277-80, 1995.

Holmes GP, Kaplan JE, Gantz NM, et al. Chronic Fatigue Syndrome: a working case definition. *Ann Intern Med* 108:387-389, 1988.

Hutchinson LJ, Amler RW, Lybarger JA, Chappell W. Neurobehavioral test batteries for use in environmental health field studies. Atlanta: US Department of Health and Human Services, 1992.

International Programme On Chemical Safety (IPCS). Report of Multiple Chemical Sensitivities (MCS) Workshop, February 21-23, 1996. Berlin, 1996.

Kidd PG, Vogt RF. Report of the Workshop on the Evaluation of T-Cell Subsets During HIV Infection and AIDS. *Clin Immunol Immunopathol* 52:3-9, 1989.

Kipen H. Neuroscience Research Agenda Options Panel. *Toxicol Ind Health* 10(4/5): 645-652, 1994.

Kipen HM, Hallman W, Kelly-McNeil K, Fiedler N. Measuring chemical sensitivity prevalence: a questionnaire for population studies. *Am J Public Health*. 85(4):574-577, 1995.

Kipen H, Fiedler N. *Experimental approaches to chemical sensitivity: introduction and overview. Environ Health Perspect* 105, Suppl 2:405-407, 1997.

Kurt TL. *Multiple chemical sensitivities: a syndrome of pseudotoxicity manifest as exposure perceived symptoms. Clin Toxicol* 33(2):101-105, 1995.

Langley F. *Seeking policy resolutions to MCS issues. Multiple Chemical Sensitivities: State of the Science Symposium (presentation). Baltimore, October 30/November 1, 1995.*

Lax MB, Henneberger PK. *Patients with multiple chemical sensitivities in an occupational health clinic: presentation and follow-up. Arch Environ Health* 51:425-431, 1995.

Lessof M. *Report of Multiple Chemical Sensitivities (MCS) Workshop, Berlin, Germany, 21-23 February 1996. PCS/96.29 IPCS, Geneva, Switzerland. Hum Exp Toxicol* 16:233-234, 1997.

Levin AS, Byers VS. *Environmental illness: a disorder of immune regulation. Occup Med* 2(4):669-681, 1987.

Levin AS, Byers VS. *Multiple chemical sensitivities: a practicing clinician's point of view- clinical and immunologic research findings. Proceedings of the AOEC Workshop on Multiple Chemical Sensitivity. Toxicol Ind Health* 8(4):95-109, 1992.

Leznoff A. *Multiple chemical sensitivities: myth or reality? Proceedings of the Multiple Chemical Sensitivities and Their Relevance to Psychiatric Disorders Workshop. Ottawa, December 7, 1992.*

Lieberman MS, DiMuro BJ, Boyd JB. *Multiple chemical sensitivity: an emerging area of law. Trial* 22-45, July 1995.

Mayberg H. *Critique: SPECT studies of multiple chemical sensitivity. Toxicol Ind Health* 10(4/5): 661-665, 1994.

Meggs WJ. *MCS and the immune system. Toxicol Ind Health* 8(4):203-214, 1992.

Meggs WJ, Cleveland CH Jr. *Rhinolaryngoscopic examination of patients with the multiple chemical sensitivity syndrome. Arch Environ Health* 48(1):14-18, 1993.

Meggs WJ. *Multiple chemical sensitivities: chemical sensitivity as a symptom of airway inflammation. Clin Toxicol* 33(2):107-110, 1995.

Meggs WJ, Dunn KA, Bloch RM, Goodman PE, Davidoff AL. *Prevalence and nature of allergy and chemical sensitivity in a general population. Arch Environ Health* 51(4):275-282, 1996.

Mercier M, et al. *Letters to the editor. Arch Environ Health* 51(4):340-342, 1996.

Metcalf SW, Samet J, Hanrahan J, Schwartz D, Hunninghake G. *A standardized test battery for lung and respiratory diseases for use in environmental health field studies. Atlanta: US Department of Health and Human Services, 1994.*

Miller CS. *Chemical sensitivity: history and phenomenology. Toxicol Ind Health* 10(4/5): 253-276, 1994.

Miller CS, Mitzel HC. *Chemical sensitivity attributed to pesticide exposure vs. remodeling. Arch Environ Health* 50(2): 119-129, 1995.

Miller C, Ashford N, Doty R, Lamielle M, Otto D, Rahill A, Wallace L. Empirical approaches for the investigation of toxicant-induced loss of tolerance. *Environ Health Perspect* 105(Suppl 2): 515-519, 1997.

Mooser SB. The epidemiology of multiple chemical sensitivities (MCS). *Occup Med* 2(4):663-81, 1987.

National Research Council. Committee on Biological Markers. Biological markers in environmental health research. *Environ Health Perspect* 74:3-9, 1987.

National Research Council. Biologic markers in reproductive toxicology. Washington, DC: National Academy Press, 1989a.

National Research Council. Biologic markers in pulmonary toxicology. Washington, DC: National Academy Press, 1989b.

National Research Council. Biologic markers in immunotoxicology. Washington, DC: National Academy Press, 1992a.

National Research Council. Environmental neurotoxicology. Washington, DC: National Academy Press, 1992b.

National Research Council. Multiple chemical sensitivities: a workshop. Washington, DC: National Academy Press, 1992c.

Nethercott JR, Davidoff LL, Curbow B. Multiple chemical sensitivities syndrome: towards a working case definition. *Arch Environ Health* 48(1):19-26, 1993.

Ontario Ministry of Health. Report of the Ad Hoc Committee on Environmental Hypersensitivity Disorders. Toronto, 1985.

Overstreet DH, Miller CS, Janowsky DS, Russell RW. Potential animal model of multiple chemical sensitivity with cholinergic supersensitivity. *Toxicology* 111:119-134, 1996.

Patterson R, Dykewicz MS, Grammar LC, et al. Formaldehyde reactions and the burden of proof (editorial). *J Allergy Clin Immunol* 79:705-706, 1987.

Pirkle JL, Sampson EJ, Needham LL, Patterson DG, Ashley DL. Using biological monitoring to assess human exposure to priority toxicants. *Environ Health Perspect* 103(suppl 3):45-48, 1995.

Pirkle JL, Flegal KM, Bernet JT, Brody DJ, Etzel RA, Maurer KR. Exposure of the US population to environmental tobacco smoke: the Third National Health and Nutrition Examination Survey, 1988 to 1991. *JAMA* 275:1233-1240, 1996.

Pitman RK, Orr SP, Shalev AY. Once bitten, twice shy: beyond the conditioning model of PTSD (editorial). *Biol Psychiatry* 33:145-146, 1993.

Presidential/Congressional Commission on Risk Assessment and Risk Management. Risk assessment and risk management in regulatory decision-making, volume 2. Washington, DC, 1997.

Post RM. Transduction of psychosocial stress into the neurobiology of recurrent affective disorder. *Am J Psychiatry* 149(8):999-1010, 1992.

Randolph TG. Sensitivity to petroleum including its derivatives and antecedents. *J Lab Clin Med* 40:931-932, 1952.

Rea WJ, Johnson AR, Ross GH, Butler JR, Fenyves EJ, Griffiths B, et al. Considerations for the diagnosis of chemical sensitivity. In: *Multiple Chemical Sensitivities*. Washington DC, National Academy Press, 1992.

Rea WJ. Design issues critical to the study of chemical sensitivity: experimental approaches to multiple chemical sensitivity (presentation). Princeton, September 20-22, 1995.

Ross GH. Treatment options in MCS. *Toxicol Ind Health* 8(4):87-94, 1992.

Salvaggio JE. Misuse of "biomarker" tests: the problem of the sick building: facts and implications (presentation). Lake Buena Vista, FL, December 4, 1992.

Schenker EL, Hultin LE, Bauer KD, Ferbas J, Margolick JB, Giorgi JV. Evaluation of a dual-color flow cytometry immunophenotyping panel in a multicenter quality assurance program. *Cytometry* 14(3):307-17, 1993.

Selner JC, Staudenmayer H. Neuropsychologic observations in patients presenting with environmental illness. *Toxicol Ind Health* 8(4):145-155, 1992.

Selner JC. Chamber challenges: the necessity of objective observation. *Reg Toxicol Pharmacol* 24(1):87-95, 1996.

Shusterman DJ, Dager SR. Prevention of psychological disability after occupational respiratory exposures. *Occup Med* 6(1):11-27, 1991.

Siegel S, Kreutzer R. Pavlovian conditioning and multiple chemical sensitivity. *Environ Health Perspect* 105(Suppl 2): 521-526, 1997.

Sikorski EE, Kipen HM, Selner JC, Miller CM, Rodgers KE. Roundtable summary: the question of multiple chemical sensitivity. *Fundam Appl Toxicol* 24:22-28, 1995.

Siegel S, Kreutzer, R. Pavlovian conditioning and multiple chemical sensitivity. *Environ Health Perspect* 105(Suppl 2):521-526, 1997.

Simon GE, Katon WJ, Sparks PJ. Allergic to life: psychological factors in environmental illness. *Am J Psychiatry* 147:901-906, 1990.

Simon GE. Psychiatric treatments in multiple chemical sensitivity. *Proceedings of the AOEC Workshop on Multiple Chemical Sensitivities*. *Toxicol Ind Health* 8(4):67-72, 1992.

Simon GE, Daniell W, Stockbridge H, Claypoole K, Rosenstock L. Immunologic, psychological, and neuropsychological factors in multiple chemical sensitivity: a controlled study. *Ann Intern Med* 19(2):97-103, 1993.

Simon GE, Daniell W. Controversy over multiple chemical sensitivities [Letter]. *Ann Intern Med* 120(3):249-251, 1994.

Smedley J. Is formaldehyde an important cause of allergic respiratory disease? *Clin Exp Allergy* 26:247-249, 1996.

Sorg BA. A proposed animal neurosensitization model for MCS in studies with formaldehyde. *Conference on Risk Assessment Issues for Sensitive Human Populations*. Wright-Patterson AFB, Ohio, April 25-27, 1995.

Sorg BA, Hooks MS, Kalivas PW. Neuroanatomy and neurochemical mechanisms of time-dependent sensitization. *Toxicol Ind Health* 10(4/5):369-386, 1994.

Sparks PJ, Daniell W, Black DW, Kipen HM, Altman LC, Simon GE, et al. Multiple chemical sensitivity syndrome: case definition, theories of pathogenesis and research needs. *J Occup Environ Med* 36:718-730, 1994.

Spyker DA. Multiple chemical sensitivities: syndrome and solution. *Clin Toxicol* 33:95-99, 1995.

Staudenmayer H, Selner J. Neuropsychophysiology during relaxation in generalized, universal >allergic' reactivity to the environment: a comparison study. *J Psychosom Res* 34(3):259-270, 1990.

Staudenmayer H, Selner JC, Buhr MP. Double-blind provocation chamber challenges in 20 patients presenting with multiple chemical sensitivity. *Reg Toxicol Pharmacol* 18:44-53, 1993.

Staudenmayer H, Selner JC. Commentary: Failure to assess psychopathology in patients presenting with chemical sensitivities. *J Occup Environ Med* 37(6):704-709, 1995.

Stewart DE, Raskin J. Psychiatric assessment of patients with '20th-century disease' ("total allergy syndrome"). *Can Med Assoc J* 133:1001-1006, 1985.

Straight JM, Kipen HM, Vogt RF, Amler RW. Immune function batteries for use in environmental health field studies. Atlanta: US Department of Health and Human Services, 1994.

Straight JM, Amler RW, Vogt RF, Kipen HM. Biomarker testing for the assessment of populations exposed to hazardous chemicals. In: Curry PB, Iyengar S, Maloney PA, Moroni M, eds. *Methods of pesticide exposure assessment*. New York City: Plenum Press, 1995.

Straight JM, Vogt RF. The use of biological markers in the clinical and epidemiological evaluation of exposures and health effects related to indoor air. In: Bardana EJ, Montanaro A, eds. *Indoor air pollution and health*, New York City: Marcel Dekker, 1997.

Sullivan JB, Brooks BO. Multiple chemical sensitivities. In: Sullivan JB, Krieger GR, eds. *Hazardous Materials Toxicology*. Baltimore: Williams & Wilkins, 1992.

Terr AI. Environmental illness: a clinical review of 50 cases. *Arch Intern Med* 146:145-149, 1986.

Terr AI. "Multiple chemical sensitivities:" immunologic critique of clinical ecology theories and practice. *Occup Med* 2(4):683-694, 1987.

Terr AI. Clinical ecology in the workplace. *J Occup Environ Med* 31(3):257-261, 1989.

Thrasher JD, Broughton A, Madison R. Immune activation and autoantibodies in humans with long-term inhalation exposure to formaldehyde. *Arch Environ Health* 45:217-223, 1990.

U.S. Environmental Protection Agency. *Indoor Air Quality and Work Environment Study: multivariate statistical analysis of health, comfort, and odor perceptions as related to personal and workplace characteristics*. Vol. 4, 21-M-3004, pp.32-33, June 1991.

Vineis P, Schulte PA, Vogt RF. Technical variability in laboratory data. In: Schulte PA, Perera F, eds. *Molecular epidemiology: principles and practices*. New York: Academic Press, 1993.

Vogt RF, Henderson LO, Straight MJ, Orti DL. Immune Biomarkers Demonstration Project: Standardized Data Acquisition and Analysis for Flow Cytometric Assessment of Immune Status in Toxicant-Exposed Persons (abstract). *Cytometry(suppl 4)*:103, 1990.

Vogt RF. Use of laboratory tests for immune biomarkers in environmental health studies concerned with exposure to indoor air pollutants. *Environ Health Perspect* 95:85-91, 1991.

Vogt RF, Henderson LO, Ethridge SF, Huang EY, White JT, Meredith NK. Lymphocyte immunophenotyping with extended quantitative analysis of list-mode files for epidemiologic health studies. *Ann N Y Acad Sci* 677:462-464, 1993.

Vogt RF, Margolick JB. Controversy over multiple chemical sensitivities [letter]. *Ann Intern Med* 120(3):249, 1994.

Wang HW, Wysocki CJ, Gold GH. Induction of olfactory receptor sensitivity in mice. *Science* 260:998-1000, 1993.

Washington State Department of Labor and Industries, Washington State Medical Association Committee on Industrial Insurance and Rehabilitation. Collaborative guidelines on the diagnosis of porphyria and related conditions. Olympia, Office of the Medical Director, 1995.

Washington State Department of Labor and Industries. Evaluation of individuals with environmental chemical exposures and suspected abnormalities of heme synthesis: working draft. Olympia, Office of the Medical Director, 1996a.

Washington State Department of Labor and Industries. L&I awards \$1.4 million in contracts for chemical illness research [news release]. January 23, 1996b.

Welch LS, Sokas R. Development of multiple chemical sensitivity after an outbreak of sick- building syndrome. *Proceedings of the AOEC Workshop on Multiple Chemical Sensitivity. Toxicol Ind Health* 8(4):47-50, 1992.

Ziem GE. Multiple chemical sensitivity: treatment and followup with avoidance and control of chemical exposures. *Toxicol Ind Health* 8(4):73-86, 1992.

Ziem G, McTamney J. Profile of patient characteristics: chemical injury and sensitivity. *Experimental Approaches to Chemical Sensitivity* (presentation). Princeton, September 20-22, 1995.