

Exponent

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ROBERT W. MORGAN, M.D., S.M. HYG.

Curriculum Vitae

Professional Profile

Dr. Morgan is Vice President of the Exponent Health Group. He specializes in epidemiology and occupational and environmental health. His professional career has included research on the health effects from non-ionizing radiation, paint and solvents, asbestos and dioxin. He has also studied reproductive outcomes in both community and worker populations. His research has also included occupational health studies of petroleum refinery workers, chemical manufacturing workers and fibrous glass production workers.

Dr. Morgan has been a principal in two scientific consulting firms. Most recently, he was founder and president of Environmental Health Strategies. Previously, he was President and CEO of Environmental Health Associates. He also served as Director of the Center for Community Health Studies at SRI (formerly Stanford Research Institute). During his academic career, Dr. Morgan taught epidemiology and preventive medicine at the University of Toronto Ontario where he was the Chairman of the Department of Preventive Medicine. Previously, he was Assistant Professor and Director of the Division of Epidemiology and Biometry in the Department of Health Care and Epidemiology at the University of British Columbia. Prior to his academic career, Dr. Morgan practiced family medicine in Victoria, British Columbia.

Professional Background

1989 - Present	Vice President Exponent Health Group
1988 - 1989	President Senior Physician Epidemiologist ENSR Health Sciences
1985 - 1988	Chairman & CEO Environmental Health Associates, Inc.
1980 - 1985	Principal Senior Physician Epidemiologist Environmental Health Associates, Inc.



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| 1979 - 1980 | Director
Center for Community Health Studies
SRI (formerly Stanford Research Institute)
Palo Alto, California |
| 1975 - 1980 | Professor
Department of Preventive Medicine and Biostatistics
University of Toronto
Ontario, Canada |
| 1972 - 1980 | Professor
Department of Medicine
University of Toronto |
| 1972 - 1975 | Professor
Department of Epidemiology
University of Toronto |
| 1971 - 1980 | Staff Physician
Department of Medicine
Toronto General Hospital |
| 1971 - 1975 | Professor and Chairman
Department of Preventive Medicine
University of Toronto |
| 1970 - 1971 | Assistant Professor and Director
Division of Epidemiology and Biometry
Department of Health Care and Epidemiology
University of British Columbia |
| 1969 - 1970 | Research Associate
Department of Health Care and Epidemiology
University of British Columbia
Victoria, British Columbia |
| 1968 - 1969 | Instructor
Department of Health Care and Epidemiology
Victoria, British Columbia |
| 1967 - 1968 | Research Fellow
Department of Health Care and Epidemiology
University of British Columbia
Victoria, British Columbia |
| 1962 - 1967 | General Practice |

Victoria, British Columbia

Board Certification

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| 1983 | Fellow, American College of Epidemiology |
| 1984 | Certified in Occupational Medicine by American Board of Preventive Medicine |

Medical Licensure

California, Ontario (Canada)

Education

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| 1961 | M.D.
University of British Columbia |
| 1962 | Internship
St. Joseph's Hospital |
| 1970 | S.M. Hyg., Epidemiology
School of Public Health
Harvard University |
| 1985 - 1989 | Courses in Business Administration at Stanford University and University of California, Los Angeles |

Professional Affiliations

Fellow, American College of Epidemiology
Fellow, American College of Preventive Medicine
American Academy of Occupational Medicine
Society for Epidemiologic Research
Permanent Commission and International Association on Occupational Health
American Occupational Medical Association
American Public Health Association

Awards and Honors

Doctor Lavell H. Leeson Memorial Scholarship
Hamish Heney McIntosh Memorial Prize
MRC of Canada Fellowship (for study at Harvard)
Samuel McLaughlin Foundation Fellowship
Eli Lilly International Fellowship

Other Professional Activities

Reviewer, numerous scientific journals
Former member, Epidemiology Study Section, NIH
Grant reviewer, numerous agencies
Consultant to various governments, trade associations, corporations, and unions.
Member, Board of Directors - York/Toronto Lung Association (1975-1978)
Member, Board of Directors - Metropolitan Toronto Zoo (1977-1979)
Member, Board of Directors - Paperback Software International (1989-1991)
Member, Environmental Health Council, Harvard School of Public Health
Member, Editorial Advisory Board - Medical
Member, Scientific Committee on Epidemiology, International Commission on Occupational Health

PUBLICATIONS

Books and Chapters

1. Morgan RW. Medical Records in Community Health Centres, The Community Health Center in Canada, Vol. 1, July 1972. Community Health Centre Project, Department of Health and Welfare. Information Canada, Ottawa, 1972.
2. Morgan RW. Medical Education in British Columbia, Working Paper 38, National Security for British Columbians. Report to Minister of Health, Province of British Columbia, December 1973.
3. Morgan RW. Biochemical Changes in Carcinoma, Chapter in the Biochemistry of Women, by Dr. Alan Curry. CRC press, Cleveland, Ohio, 1974.
4. Morgan RW. Prevention in Clinical Practice, Editor and chapter: Epidemiology, Department of Preventive Medicine, Toronto, 1974.
5. Morgan RW and Vakil DV. Opportunities for Prevention, in Risk Factors in Breast Cancer, Vol. II. Patients at Risk (Basil A. Stoll, Ed.) Heinemann Medical, London, U.K., 1976;226-238.
6. Morgan RW. Prospects for Preventive Medicine. A Catalogue. Ontario Economic Council, 1977.
7. Morgan RW, Choi BCK, and Corey PN. Mutagens, Carcinogens and Probability, In-Vitro Toxicity Testing of Environmental Agents. Proceedings: NATO Advanced Research Institute, Plenum Press, 1983, Part B:319-327.

8. Morgan RW and Larson SR. Newer Occupational Lung Carcinogens, Chapter in Occupational Lung Disease. (JBL Gee et al, eds.), Raven Press, New York, 1984.
9. Morgan RW. Occupational Health Studies, Chapter in Wireless Phones and Health Scientific Progress, (Carlo, Ed.), Kluwer Academic Publishers, Massachusetts, 1998.

Journal Articles

1. Morgan RW. Thanatology - Meaning? Archives of the Foundation of Thanatology 1968;20.
2. Morgan RW and Mansfield PJ. Geographic Distribution and Availability of Physicians in Vancouver. Can Fam Physician 1969;123-127.
3. MacMahon B, Cole P, Brown JB, Aoki K, Lin TM, Morgan RW, Woo NC. Estrogen Profiles of Asian and North American Women. Lancet 1971;Vol. II, No. 7730:900-902.
4. Morgan RW. Open Angle Glaucoma: An Epidemiologist's View. Can J Ophthalmol 1972; 7(1):75-79.
5. Morgan RW. Prevention, Anyone? (Editorial) Can J Public Health 1972;62(5):361-363.
6. Morgan RW and Scott AE. Hospital Separations and Cancer Registration in British Columbia. Can J Public Health 1972;63:363-365.
7. Drance SM, Morgan RW, and Sweeney VP. Shock Induced Optic Neuropathy: A Cause of Non-Progressive Glaucoma. New Engl J Med 1973;288:392-395.
8. Morgan RW and Munro M. Refractive Problems in Northern Natives. Can J Ophthalmol 1973;8:226-228.
9. Vakil DV and Morgan RW. Etiology of Breast Cancer, I. Genetic Aspects. Can Med Assoc J 1973;109:29-32.
10. Vakil DV and Morgan RW. Etiology of Breast Cancer, II. Epidemiologic Aspects. Can Med Assoc J 1973;109:201-206.
11. Drance SM, Sweeney VP, Morgan RW, and Feldman F. Studies of Factors Involved in the Production of Low Tension Glaucoma. Am Arch Ophthalmol 1973;89:457-465.
12. Morgan RW and Vakil DV. Endocrine Profiles and Breast Cancer (Letter). Lancet 1973;1:546.
13. Rock WJ, Drance SM and Morgan RW. Visual Field Screening in Glaucoma. Arch Ophthalmol 1973;89.

14. Drance SM, Morgan RW, Bryett S, and Fairclough M. Anterior Chamber Depth and Gonioscopic Findings Among Eskimos and Indians in the Canadian Arctic. *Can J Ophthalmol* 1973;8(2):255-259.
15. Morgan RW, Vakil DV, and Chipman ML. Breast Feeding, Family History and Breast Disease. *Am J Epidemiol* 1974;99(2):117-122.
16. Morgan RW and Jain MM. Bladder Cancer: Smoking, Beverages and Artificial Sweeteners. *Can Med Assoc J* 1974;111:1067-1070.
17. Morgan RW and Vakil DV. Etiology of Breast Cancer, III. Opportunities for Prevention. *Can Med Assoc J* 1974;111:1105-1107.
18. MacMahon B, Cole P, Brown JB, Aoki K, Lin TM, Morgan RW, and Woo NC. Urine Estrogen Profiles of Asian and Northern American Women. *Int J Cancer* 1974;14:161-167.
19. Morgan RW and Drance SM. Chronic Open-Angle Glaucoma and Ocular Hypertension: An Epidemiologic Study. *Br J Ophthalmol* 1975;59(4):211-215.
20. Shettigara PT and Morgan RW. Asbestos, Smoking and Laryngeal Carcinoma. *Arch Environ Health* 1975;30:517-519.
21. Morgan RW, Speakman J, and Grimshaw S. Inuit Myopia. An Environmentally Induced Epidemic? *Can Med Assoc J* 1975;112:575-577.
22. Morgan RW and Shettigara PT. Occupational Asbestos Exposure, Smoking and Laryngeal Carcinoma. *Ann NY Acad Sci* 1976;271:308-310.
23. Coronary Artery Surgery, (Task Force, Federal-Provincial). *Can Med Assoc J* 1977;117:451-459.
24. Jain M, Morgan RW, and Elinson L. Hair Dyes and Bladder Cancer, (Letter). *Can Med Assoc J*. 1977;117:1131-1133.
25. Morgan RW, Grimshaw-Levesque S, Elinson L, Vakil DV, and Brown JB. Estrogen Fractions and Breast Cancer Risk in Canadian Inuit and White. *Clin Invest Med* 1978;1(1):33-35.
26. Morgan RW, Vakil DV, Brown JB, and Elinson L. Estrogen Profiles in Young Women: Effect of Maternal History of Breast Cancer. *J Natl Cancer Inst* 1978;60(5):965-967.
27. Morgan RW, et al. A Comparison of Dietary Methods in Studies. *Am J Epidemiol* 1978;107:488-498.

28. Choi NW, Howe GR, Miller AB, Matthews V, Morgan RW, Munan L, Burch D, Feather J, Jain M, and Kelly A. An Epidemiologic Study of Breast Cancer. *Am J Epidemiol* 1978;107(6):510-521.
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30. Vakil DV and Morgan RW. Pre-and Postmenopausal Breast Cancer: Differences in Risk Factors, Proceedings of the Third International Symposium on Detection and Prevention of Cancer, Vol. II, Prevention and Detection of Cancer (H.E. Nieburgs, ed.). Marcel Decker, Inc., New York 1978;1539-1550.
31. Reid EL and Morgan RW. Exercise Prescription: A Clinical Trial. *Am J Public Health* 1979;69(6):591-595.
32. Morgan RW. Skin Cancer after PUVA Treatment for Psoriasis (Letter). *New Engl J Med* 1979;301(10):554.
33. Schottenfeld D, Morgan RW, and Zauber AG. Questions raised by a Study on Cancer Mortality in Oil Refinery Workers (Letter). *J Occup Med* 1980;22(2):69-70.
34. Vakil DV, Morgan RW, Elinson L, and Cory PN. Pre-menopausal and Post-menopausal Breast Cancer: Epidemiologic Similarities. *Clin Invest Med* 1980;2(4):161-164.
35. Morgan RW, Kaplan SD, and Bratsberg J. Mortality Study of Fibrous Glass Production Workers. *Arch Environ Health* 1981;36(4):179-183.
36. Morgan RW, Kaplan SD, and Gaffey WR. A General Mortality Study of Production Workers in the Paint and Coatings Manufacturing Industry. *J Occup Med* 1981;23(1):13-21.
37. Morgan RW, Claxton KW, Divine BJ, Kaplan SD, and Harris VB. Mortality Among Ethylene Oxide Workers. *J Occup Med* 1981;23(11):767-770.
38. Vakil DV, Morgan RW, and Elinson L. Benign Breast Disease: Estriol Proportions and Family History of Breast Cancer. *Cancer Detection and Prevention* 1981;4:517-523.
39. Vakil DV, Elinson L, and Morgan RW. Cystic Disease, Family History of Breast Cancer, and Use of Oral Contraceptives. *Cancer Detection and Prevention* 1981;4:511-515.
40. Kaplan S and Morgan RW. Airborne Carcinogens and Human Cancer. *Rev Environ Health (Israel)* 1981;3(4):329-368.

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42. MacMahon B, Trichopolous D, Brown J, Andersen AP, Aoki K, Cole P, de Waard F, Kauraniemi T, Morgan RW, Purde M, Ravnihar B, Stormby N, Westlund K and Woo NC. Age at Menarche, Probability of Ovulation and Breast Cancer Risk. *Int J Cancer* 1982;29:13-16.
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45. Vakil DV, Morgan RW, and Halliday M. Exogenous Estrogens and Development of Breast and Endometrial Cancer. *Cancer Detect Prev* 1983;6(4-5):415-424.
46. Morgan RW and Wong O. Evaluating Diagnostic Devices: An Epidemiologic Perspective. *Medical Device & Diagnostic Industry*, April 1983;28-31.
47. Morgan RW, Kheifets L, Obrinsky DL, Whorton MD, and Foliart DE. Fetal Loss and Work in a Waste Water Treatment Plant. *Am J Public Health* 1984;74(5):499-501.
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53. Cranmer JM, Morgan RW, et al. International Workshop on Neurobehavioral Effects of Solvents: Consensus Workshop Summary. *"Neurotoxicology"* 1985;6(4):101-102.

54. Morgan RW, Foliart DR, and Wong O. Asbestos and Gastrointestinal Cancer; a Review of the Literature. *West J Med* 1985;143:60-65.
55. Morgan RW and Wong O. A Review of Epidemiological Studies on Artificial Sweeteners and Bladder Cancer. *Food and Chemical Toxicology* 1985;23(4/5):529-533.
56. Wong O, Morgan RW, Bailey W, Swencicki RE, Claxton K and Kheifets L. An Epidemiologic Study of Petroleum Refinery Employees. *Br J Ind Med* 1986;43:6-17.
57. Whorton MD, Larson SR, Gordon NJ, and Morgan RW. Investigation and Work-Up of Tight Building Syndrome. *J Occup Med* 1987;29(2):142-147.
58. Whorton MD, Morgan RW, Wong O, Larson SR, and Gordon NJ. Problems Associated with Collecting Drinking Water Quality Data for Community Studies: A Case Example, Fresno County, California. *Am J Public Health* 1988;78(1):47-51.
59. Wong O, Whorton MD, Gordon NJ, and Morgan RW. An Epidemiologic Investigation of the Relationship between DBCP Contamination in Drinking Water and Birth Rates in Fresno County, California. *Am J Public Health* 1988;78(1):43-46.
60. Whorton MD, Wong O, Morgan RW, Gordon NJ. An Epidemiologic Investigation of Birth Outcomes in Relation to Dibromochloropropane Contaminations in Drinking Water in Fresno County, California. *Int Arch Occup Environ health* 1989;61:403-407.
61. Wong O, Morgan RW, Whorton MD, Gordon N, Kheifets L. Ecological Analysis and Case-Control Studies of Gastric Cancer and Leukemia in Relation to DBCP in Drinking Water in Fresno County, California. *Br J Ind Med* 1989;46(8):521-528.
62. Morgan RW. Meta-Analysis of Asbestos and Gastrointestinal Cancer (Letter). *Am J Ind Med* 1991;19:407-408.
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65. Morgan RW. Attitudes about Asbestos and Lung Cancer (Commentary). *Am J Ind Med* 1992;22:437-441.
66. Morgan RW, Elcock M. Update on Artificial Sweeteners and Bladder Cancer. *Regul Toxicol Pharmacol* 1993;17:35-43.
67. Morgan RW. Tracking and Surveillance of Patients with Medical Devices and Implants. *Med Device Tech* 1993;4:38-43.

68. Morgan RW. Medical Device Trials of the Future. *Applied Clin Trials* 1994;3(7):37-41.
69. Morgan RW and Zhao K. Study of Occupational Lung Cancer in Asbestos Factories in China (Letter). *Occup Environ Med* 1994;51:719-720.
70. Morgan RW and Elcock M. Artificial Implants and Soft Tissue Sarcomas. *J Clin Epidemiol* 1995;48(4):545-549.
71. Rothman KJ, Chou CK, Morgan R, Balzano Q, Guy AW, Funch DP, Preston-Martin S, Mandel J, Steffens R, Carlo G. Assessment of Cellular Telephone and Other Radio Frequency Exposure for Epidemiologic Research. *Epidemiology* 1996;7:291-298.
72. Morgan, RW. Risk of Endometrial Cancer After Tamoxifen Treatment. *Oncology* 1997;11(2,supp.1):25-33.
73. Morgan RW, Kelsh MA, Zhao K, Heringer S. Mortality of Aerospace Workers Exposed to Trichloroethylene. *Epidemiology*, July 1998;9:424-431.