



## NACHMAN BRAUTBAR, MD

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Areas of Expertise:	All aspects of Internal Medicine, Medical Toxicology, Occupational Medicine and Nephrology
Professional Experience: (Past & Present)	Medical Examiner, State of California Chairman Department of Medicine, Queen of Angels/Hollywood Presbyterian Medical Center Chairman Utilization Review Committee, Queen of Angels/Hollywood Presbyterian Medical Center Chairman Quality Management, Queen of Angels/Hollywood Presbyterian Medical Center Vice Chairman Department of Medicine, Queen of Angels/Hollywood Presbyterian Medical Center
Professional Qualifications:	Board Certification, Internal Medicine, 1979 Board Certification, Nephrology, 1980 Board Certification, Forensic Medicine, 1995 Fellow, Collegium Ramazzini
Professional Affiliations:	American Society of Internal Medicine American Society of Toxicology Society of Toxicology American College of Occupational and Environmental Medicine
Past and Upcoming:	<b>Visiting Professor/Visiting Scientist/Lecturer</b> National Institute of Health Mayo Clinic Yale University Harvard Medical School Czech Republic National Institute of Health Cancer Research Institute, University of Bologna, Italy School of Public Health, Tel Aviv, Israel
Appointments: (Past & Present)	Clinical Professor Emeritus of Medicine, January 2008 Clinical Professor of Medicine, U.S.C., 1988 to 2008 Faculty, 1998 National Judicial College, Reno, Nevada, Causation Associate Professor of Pharmacology, U.S.C., 1980-1987 Associate Professor of Medicine, U.S.C., 1978-1988
Publications and Presentations:	240+ Scientific and Medical Manuscripts and Book Chapters, Editorial Board/Consulting Board: Journal of Clean Technology, Environmental Toxicology and Occupational Medicine, Archives of Environmental Health Toxicology and Industrial Health
Comments:	Review of records, material safety data sheets, assessment of levels of exposure and establishing elements required for causation. Literature regarding general causation. Differential diagnosis to establish causation. Expert opinion and testimony.
Trial Testimony:	Dr. Brautbar has testified in Federal and State Courts and has been qualified as an expert in Internal Medicine, Occupational Medicine, Toxicology and Nephrology. Dr. Brautbar has consulted and testified on behalf of plaintiffs, defendants, and independent medical evaluation.
Workers' Compensation:	Dr. Brautbar is a treating, consulting and evaluating physician. In his reports, causation analysis, TD, TTD disability ratings pre-2005 and post-2005, vocational rehabilitation and apportionment are addressed.
CSIMS:	Dr. Brautbar has taught QMEs in several CSIMS seminars. Topics include: causation, apportionment, and compensable consequences of industrial injuries. Dr. Brautbar has served on the Board of Directors of CSIMS and is a member of the Education Committee.

# Nachman Brautbar, M.D.

Board Certified, Internal Medicine, Nephrology, Forensic Medicine  
Fellow, Collegium Ramazzini  
American College of Toxicology  
American College of Occupational, Environmental Medicine

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Internal Medicine

Toxicology & Chemical Exposure

Kidney Disease & Hypertension

Pharmacology

Pension Disability Evaluation

Impairment Evaluation

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Revised 4/18/2018

## Curriculum Vitae Nachman Brautbar, M.D.

### Date and Place of Birth:

October 22, 1943

Haifa, Israel

### Education and Academic Appointments:

#### Medical School:

Hebrew University - Hadassah Medical School, Jerusalem, Israel, 1961-1968,  
M.D., 1969.

#### Internship:

Rotating Internship: Ramban Hospital, Haifa University, Israel, 1968-1969 (12 months).

#### Residencies:

Resident in Internal Medicine, Rothschild Medical Center, Haifa, Israel, 1971-1973  
(18 months).

Chief Resident: Department of Medicine "D", Hadassah University Hospital, Jerusalem,  
Israel, 1974-1975 (12 months).

Total Residency in Internal Medicine (30 months).

California Licensure Examination, 1975

U.S.A. Internship: Wadsworth V.A. Medical Center, Los Angeles, October 1975-June  
1976.

Nephrology Fellowship: Wadsworth V.A. Medical Center, Los Angeles, March 1975 to  
June 1977.

Assistant Professor of Medicine, UCLA, 1977-1978.

Assistant Chief, Hemodialysis Unit, Wadsworth V.A. Hospital, April 1977-1978.

Assistant Professor of Medicine, U.S.C., July 1, 1978.

Assistant Professor of Pharmacology, U.S.C., July 1981.

Tenured Associate Professor of Medicine and Pharmacology, U.S.C., January 1982-1988.

Clinical Professor of Medicine and Pharmacology, U.S.C., April 1988 - 1993.

Clinical Professor of Medicine, U.S.C., 1994 - December 2007.

Clinical Professor Emeritus of Medicine, U.S.C., January 1, 2008.

Private Practice of Medicine: 1980 - present; Internal Medicine, Nephrology, and

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Toxicology.

**Past and Present Professional Activities:**

**A. Utilization Review Consultation**

American Insurance Administrators, Los Angeles, California.  
Hollywood Presbyterian Medical Center, Los Angeles, California, Utilization Review.

**B. Societies:**

European Dialysis and Transplantation Association, 1975  
American Federation for Clinical Research, 1975  
International Society for Nephrology, 1975  
Israel Nephrology Society, 1975  
American Society for Nephrology, 1976  
American Society of Artificial Internal Organs, 1978  
American College of Emergency Medicine, 1979  
American Society of Bone and Mineral Metabolism, 1979  
Western Society for Clinical Investigation, 1980  
American Physiological Society, 1981  
American Endocrine Society, 1981  
Biophysical Society, 1982  
Biochemical Society, 1982  
American Chemical Society, 1982  
American College of Nutrition, 1983  
American Society of Neuroscience, 1984  
American Society of Experimental Biology & Medicine, 1984  
American Society for Renal Biochemistry, 1984  
International Society for Alcohol Research, 1984  
American Society of Parenteral and Enteral Nutrition, 1984  
California Society of Industrial Medicine & Surgery, 1985  
American Society of Industrial Medicine, 1985  
Society of Toxicology - Southern California Chapter, 1986  
American College of Occupational & Environmental Medicine, 1992  
American Association for the Advancement of Science, 1993  
American College of Toxicology, 1993  
American Academy of Environmental Medicine, 1993  
American Board of Forensic Examiners, 1994  
American College of Legal Medicine, 1994  
American College of Physicians, 1994  
International Society for Environmental Epidemiology, 1994  
American College of Physician's Executives, 1995  
Council of Fellows of the Collegium Ramazzini, 1995  
International Society for the Study of Xenobiotics, 1996  
Society of Toxicology, 1996  
Society of Toxicology, Neurotoxicology Specialty Section, 1996  
Society of Toxicology, Immunotoxicology Specialty Section, 1996  
Renal Physicians Association, 1996  
American Academy of Experts in Traumatic Stress, 1997  
American Academy of Preventive Medicine  
Environmental Assessment Association, 1997

American Academy of Disability Evaluating Physicians, 1998  
British Toxicology Society, 1998  
Environmental Assessment Association, 1998  
Society of Toxicology, Risk Assessment Specialty Section, 1999  
California Society of Industrial Medicine and Surgery, Board of Directors, 2001  
California Society of Industrial Medicine and Surgery, Member, Education Committee, 2001

**C. Awards:**

M.D. Thesis, "Prize for Excellence," Hadassah Medical School, Jerusalem, Israel, 1970.  
Fellow in Nephrology, V.A. Wadsworth Medical Center, J.W. Coburn, M.D., Los Angeles, California, October, 1975 to September 1977.

"Prize for Excellence", American Student Medical Association, Western Branch: Meritorious research paper, Carmel, California, 1977.

Traveling Scholarship, American Society of Nephrology, 1978.

Cedars-Sinai Hypertension Research Clinic, U.C.L.A., July 1976 to February 1977.

Award for "Outstanding Organization of the 2nd International Congress on Myocardial and Cellular Bioenergetics," 1984, U.S.C.

Award for Excellence in Teaching and Community Involvement, The City of Los Angeles Council, December 1984.

Award for Voluntary Work for the Hispanic Community, Los Angeles, City of L.A., Councilman A. Schneider, 9/85.

Award for 15 Years of Service, Queen of Angels/Hollywood Presbyterian Medical Center, 12/95.

Fellow of the Collegium Ramazzini, 1995 to present

Fellow of the American College of Physicians, 1998

Resolution of Appreciation, Santa Clara Valley Water District, 09/07/99

Certificate of Recognition, California State Senate, Senator Richard G. Polanco, 09/21/99

Resolution Relative to Commending, Senator Richard J. Mountjoy, 29<sup>th</sup> Senatorial District, 11/15/00

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<u>California License Number:</u>	A-30713
<u>Board of Internal Medicine:</u>	Diplomate in Internal Medicine, January 1979
<u>Board of Nephrology:</u>	Diplomate in Nephrology, June 1980
<u>Board of Forensic Examiners:</u>	Diplomate in Forensic Medicine, January 1996
<u>Medical Board of California:</u>	Expert Medical Reviewer, December 2005
<u>Citizenship:</u>	American, Naturalized, July 1980

**D.** **Specific Teaching Responsibilities:** (Past and Present)

Internal Medicine Weekly Seminars for House Staff, 1974 – 1975, Hadassah, Jerusalem, Israel.

Lectures in Physical Examination and Diagnostics for Medical Students: U.C.L.A., 1977-1978.

Lectures and Seminars in Renal Physiology to Residents, U.C.L.A., 1977-1978.

Mechanism of Diseases, U.S.C., Medical School, 1978-1987.

Pathophysiology Course, U.S.C., Medical School, 1978-1987.

Student Ward Attending, U.S.C., Medical School, 1978-1987.

Attending on Nephrology Ward, U.S.C., Medical School, 1978-1987.

Attending on Medicine Ward, U.S.C., Medical School, 1978-present

Residents Seminars in Nephrology, U.S.C. Medical School, 1978-1987.

Senior Advisor, Ph.D. Program, Department of Pharmacology, U.S.C., Medical School, 1978-1987.

Department of Medicine - Attending in Internal Medicine 1-2 Months Per Year. Direct Daily Teaching To Residents, Interns, and Students. University of Southern California, School of Medicine, Department of Medicine 1978, Presently Emeritus.

**E.** **Medical Scientific Committees:** (Past and Present)

Assistant Chief Hemodialysis Unit, Wadsworth, V.A. Hospital and U.C.L.A., June 1977-June 1978, Center, January 1980-1983.

Director, Renal Research Laboratory, U.S.C./L.A.C. Medical Center, January 1980-1983.

Advisor to the Scientific Council, Kidney Foundation of Southern California.

Chairman, Nephrology Section, Hollywood Presbyterian Medical Center, Los Angeles, California.

Member, Research Committee, Kidney Foundation of Southern California, August 1979.

Chairman, Public Relations Committee, Kidney Foundation of Southern California, August, 1980.

Member, Research Committee, Kidney Foundation of Southern California, 1983.

Chairman, Research Council, Kidney Foundation of Southern California, 1983.

Chairman, Annual Scientific Symposium, Kidney Foundation of Southern California.

Chairman, Organizing Committee 2nd International Congress on Myocardial and Cellular Bioenergetics, 1984.

Member, Organizing Committee and Vice Chairman, Program Committee, American Society for Magnesium Research, Los Angeles, 1985.

Director, Center for Internal Occupational and Toxicological Medicine, March, 1986.

Director, Osteoporosis Center, March, 1986.

Chairman, Department of Medicine, Hollywood Presbyterian Medical Center, 1985-1987.

Chairman, Utilization Review Committee, Hollywood Presbyterian Med Center, 1987-89  
Member, Quality Utilization Council, Queen of Angels Medical Center, 1996.  
Member, Medical Records Committee, Queen of Angels Medical Center, 1996.  
Chairman, Subacute Care Committee SNF, Queen of Angels Medical Center, 1996.  
Member, Clinical Nutrition Committee, Queen of Angels Medical Center, 1996.  
Member, Executive Committee, California Society of Industrial Medicine and Surgery  
Chairman Task Force Environmental Health, City of Los Angeles, City Attorney.  
Chairman, Skilled Nursing Services, Queen of Angels Medical Center, 1996  
Chairman, Allied Services Committee, Queen of Angels Medical Center, 1997  
Vice-Chairman, Dept of Medicine, Queen of Angels Medical Center, 1999, 2000, 2001  
Chairman, Pharmacy & Therapeutics Committee, Queen of Angels Medical Center, 1999, 2000  
Member, CSIMS Education Committee, California Society of Industrial Medicine & Surgery, 2000  
Chairman, Panel Discussion, New York Academy of Sciences. Carcinogenesis Bioassays and Protecting Public Health: Commemorating the Lifework of Cesare Maltoni. April, 2002.  
Chairman, Education Committee, California Society of Industrial Medicine & Surgery, 2002

**F.** **Grants:**

Recipient of a Kidney Foundation Fellowship Grant, 1977

Recipient of an American Heart Association, Clinical Investigation Grant, 1980

Recipient of an NIH Grant, \$240,000 for Investigation Into Myopathy of Phosphate Depletion, 1985-1987.

**G.** **Editorial Boards, Consultants & Peer Review:** (Past and Present)

Editorial Board, Journal of Clean Technology and Environmental Sciences.

Editor-in-Chief, International Journal of Occupational Medicine and Toxicology.

Assistant Editor to Mineral and Electrolyte Metabolism.

Consultant to the Editor of Archives of Internal Medicine.

Consultant to the Editor of Biochemical Medicine.

Consultant to the Editor of Kidney International.

Consultant to the Editor of Journal of Clinical Investigation.

Editorial Board, Biochemical Medicine.

Editorial Board, Nephron.

Consultant to the Journal of Clinical Investigation.

Consultant to Kidney International.

Assistant Editor, American Journal of Nephrology.

Consultant to "Magnesium", Journal of the American Society for Magnesium Research.

Consultant to the Journal of the American College of Nutrition.

Consultant to the American Journal of Physiology.

Consultant to the Editor of Renal Physiology.

Consultant to the Editor of Advances of Modern Environmental Toxicology.

Editorial Board, Toxicology and Industrial Health.

Consultant to the Archives of Environmental Health

Consultant to the Journal of Exposure Analysis

Consultant for the Life Sciences Research Office, Federation of American Society for Experimental Biology  
Consultant for the Scientific Advisory Committee and Study Section, American Heart Association, Los Angeles, California.  
Editor-in-Chief, Journal of Clean Technology, Environmental Toxicology, and Occupational Medicine.  
Coeditor, Toxicology and Industrial Health  
Peer Reviewer, Department of Health & Human Services/ATSDR, A Follow-Up Investigation of the Stability and Predictive Value of Kidney Biomarkers Among Participants in Three Earlier ATSDR Health Investigations, 2000  
Peer Reviewer, Federal Judicial Center, Reference Manual on Scientific Evidence, Second Edition, 2000  
Peer Reviewer, Eastern Research Group/ATSDR, Malathion Chemical Technical Summary for Public Health and Public Safety Professionals, 2000  
Editorial Board, International Journal of Occupational medicine and Environmental Health  
Editorial Board, Archives of Environmental & Occupational Health  
Peer Reviewer, A Medical-Legal Companion to the AMA Guide Fifth, Chapter on pulmonary medicine.

**Publications:**

1. Better, O.S., N. Brautbar, S. Branstater, et al. Obstruction of the inferior vena cava. Harefuah (Journal of the Israel Society of Medicine) 73:83-5, 1967.
2. Brautbar, N., Lead poisoning in a family of immigrants from Iran. Department of Public Health, Israel, 1967.
3. Better, O.S., J. Garty, N. Brautbar, D. Barzilai. Diminished functional parathyroid reserve Following 131 treatment for hyperthyroidism. Isr J Med Sci. 5:419-22, 1969.
4. Litwin, Y., N. Brautbar. Granulomatous liver disease, induced by quinidine. Harefuah (Journal of the Israeli Society of Medicine). 89:474-5, 1975.
5. Berl, T., N. Brautbar, M. Ben-David, W. Czazkes, C.R. Kleeman. Osmotic control of prolactin release and its effect on renal water excretion in man. Kidney International. 10:158-83, 1976.
6. Brautbar, N., M. Ben-David. Osmotic regulation Of prolactin and renal handling of water. A review. Harefuah (Journal of the Israeli Society of Medicine). 91:97-8, 1976.
7. Brufman, D., M. Brazis, N. Brautbar, R. Fink. Treatment of primary hepatocellular carcinoma with adriamycin. Harefuah (Journal of the Israeli Society of Medicine). 90:381-2, 1976.
8. Brautbar, N., J. Rosler, J. Levi, et al. Familial hyperkalemia and hyporeninemia, a distal tubular defect in potassium secretion. Clin Res. 24:125, 1976.
9. Berl, T., N. Brautbar, W. Chazkes, et al. Osmotic control of prolactin release and the effect of the hormone on renal excretion of water in man. Clin Res. 25:98, 1976.

10. Brautbar, N., M. Walling, J.W. Coburn. Effects of vitamin D and 1,25 (OH) 2 vitamin D3 on tissue and serum P in phosphate depletion. *Amer Soc Nephrol.* 1976.
11. Brautbar, N., M. Yaron, J.W. Coburn. Interactions between parathyroid hormone and 1,25 (OH) 2 vitamin D3 on renal handling of phosphate in the dog. *Clin Res.* 25:136A.
12. Walling, M., N. Brautbar, J.W. Coburn. Effects of phosphate depletion on active transport of phosphate by rat jejunum. *Amer Soc Nephrol.* 1976.
13. Brautbar, N., D.B.N. Lee, H. Carlson, et al. Experimental phosphorus depletion (PD): attenuation of biochemical changes in hypophysectomized rats. *Clin Res.* 25:165A.
14. Brautbar, N., Y. Litwin. Salt wasting, normokalemia, elevated plasma renin activity, and normal aldosterone: a genetic abnormality in salt conservation. *Harefuah.* 91:182-4, 1977.
15. Sowers, J.R., H.E. Carlson, N. Brautbar, J.M. Hershman. Effect of dexamethasone on prolactin and TSH response to TRH and metaclopramide in man. *J Clin Endocrinol Metabol.* 44:237-41, 1977.
16. Brautbar, N. The brain and renal hemostasis of sodium. *Harefuah, Journal of the Israeli Medical Association.* 92:34-5, 1977.
17. Brautbar, N., C.R. Kleeman. Vitamin D and renal handling of calcium and phosphorus. *Harefuah.* 92:278-9, 1977.
18. Diengott, D., A. Spindel, N. Brautbar, F. Dreyfuss. A radioisotope test for diagnosis of deep vein thrombosis of the legs. *Harefuah, Journal of the Israeli Medical Association.* 13:414-18, 1977.
19. Brautbar, N., R. Luboshitzky. Combined calcitonin and oral phosphate treatment for hypercalcemia in multiple myeloma. *Arch Int Med.* 137:914-16, 1977.
20. Linvi, N., A. Behar, N. Brautbar. Ultrastructure of hepatocellular carcinoma in cirrhotic liver. *Isr J Med Sci.* 13:590-9, 1977.
21. Brautbar, N., J. Lerman, J.W. Czaczkes, E. Rosenmann. Renal failure and interstitial nephritis due to trichloroethylene anesthesia and high dose penicillin. *Isr J Med Sci.* 13:604-8, 1977.
22. Spitz, L.M., H. Landau, U. Almaliach, E. Rosen, N. Brautbar, A. Russel. Diminished prolactin reserve: a case report. *J Clin Endocrinol Metabol.* 5:415-18, 1977.
23. Brautbar, N., M. Ben David. Adrenogenital syndrome (11-hydroxylase deficiency) with hyperprolactinemia. reversal by glucocorticoid administration. *Arch Int Med.* 137:1608-9, 1977.
24. Lee, D.B.N., N. Brautbar, H. Carlson, C. Golvein, J.W. Coburn, C.R. Kleeman. The biochemical indices of experimental phosphorus depletion. A re-examination of their



- physiological implications. 3rd Int'l. Congress on Phosphate and Other Minerals, Madrid, July 12, 1977.
25. Brautbar, N., B. Levine, J.W. Coburn, C.R. Kleeman. Somatostatin and the renal handling of divalent ions and water. Amer Soc Nephrol. Washington, D.C., 1977.
  26. Lee, D.B.N., N. Brautbar, V. Walling, V. Sillis, J.W. Coburn, C.R. Kleeman. Experimental phosphate depletion in young rats: evidence against intestinal calcium hyperabsorption. Amer Soc Nephrol. Washington, D.C., 1977.
  27. Lee, D.B.N., N. Brautbar, R. Grindland, H. Carlson, J.W. Coburn, C.R. Kleeman. Experimental phosphorus depletion and growth hormone metabolism. Amer Soc Nephrol. Washington, D.C., 1977.
  28. Brautbar, N., J. Shinaberger, J. Miller, P. Gardner. Hemodialysis pulmonary dysfunction syndrome: dissociation between the cuprophane membrane and dialysis solution. Clin Res. 1977.
  29. Walling, N.W., N. Brautbar, J.W. Coburn. Jejunal phosphate active transport. Effects of phosphorus depletion and vitamin D. Federation Proceedings, 61st Annual Meeting, Chicago, 1977.
  30. Brautbar, N., J. Shinaberger, P. Gardner, J. Miller. Hemodialysis pulmonary dysfunction (studies with pure hemofiltration): hypoxemia induced by dialysate solution. Phys. Boston, 1977.
  31. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Phosphate depletion without hypophosphatemia: The gut as a sensor organ. 7th Annual Meeting, International Society of Nephrology, Canada, 1978.
  32. Brautbar, N., J. Shinaberger, J. Miller, P. Gardner. Hemodialysis induced hypoxemia: role of dialysis solution. 7th Annual Meeting, International Society of Nephrology, Canada, 1978.
  33. Levine, B., N. Brautbar, J.W. Coburn, C.R. Kleeman. Somatostatin and renal handling of water, possible interaction with ADH. Clin Res. 1978.
  34. Brautbar, N., J. Shinaberger, J. Miller, P. Gardner. Acid base and blood gas studies during sequential hemofiltration and hemodialysis. Clin Res. 1978.
  35. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Dietary phosphate restriction, phosphate depletion: different aspects of intestinal absorption of calcium. 7th Annual Meeting, International Society of Nephrology, Montreal, 1978.
  36. Lee, D.B.N., N. Brautbar, H. Carlson, J.W. Coburn, C.R. Kleeman. The inter-relationship between experimental phosphate depletion and growth hormone metabolism. 7th Annual Meeting International Society of Nephrology, Montreal, 1978.
  37. Shinaberger, J, N. Brautbar, J. Miller, S. Winkler. Clinical and physiological studies of

- sequential ultrafiltration-diffusion dialysis. Western Dialysis and Transplant Society, 1978.
38. Brautbar, N., M.W. Walling, J.W. Coburn. Role of vitamin D in the intestinal adaptation in phosphate depletion. Amer Soc of Nephrol., 1978.
  39. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Magnesium hemostasis in phosphate depletion. Role of dietary magnesium. Amer Soc Nephrol., 1978.
  40. Brautbar, N., J. Levi, A. Rosler, E. Leitsedorf, M. Djaldeti, M. Epstein, C. Kleeman. Familial hyperkalemia, hypertension and hyporeninemia with normal aldosterone levels: a distal tubular defect in potassium handling. Arch Int Med. 138:607-10, 1978.
  41. Brautbar, N., C. Menz, M. Winston, J.H. Shinaberger. Retroperitoneal bleeding in hemodialysis patients. A cause for morbidity and mortality. J Amer Med Assoc. 239:1530-31, 1978.
  42. Levine, B.S., N. Brautbar, J.W. Coburn. Does vitamin D affect the renal handling of calcium and phosphorus? Mineral Metabolism. 1:395-402, 1978.
  43. Shinaberger, J.H., N. Brautbar, J.H. Miller, P.W. Gardner. Successful application of sequential hemofiltration followed by diffusion dialysis with standard dialysis equipment. J Amer Soc Artif Organs. 24:677-81, 1978.
  44. Better, O.S., D. Barzilai, N. Brautbar, D. Barzilai. Error in estimation of parathyroid function in the old age group. Harefuah (Journal of the Israel Society of Medicine) 76:460, 1979.
  45. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Normophosphatemic phosphate depletion in growing rats. Amer J Physiol. 236:E283-8, 1979.
  46. Brautbar, N., M.W. Walling, J.W. Coburn. Interactions between vitamin D deficiency and phosphate depletion in the rat. J Clin Invest. 63:335-41, 1979.
  47. Lee, D.B.N., Brautbar, N., J.W. Coburn, H. Carlson, M.W. Walling, C.R. Kleeman. Effect of phosphorus depletion on intestinal calcium and phosphorus absorption. Amer J Physiol. 236:E451-8, 1979.
  48. Brautbar, N., B. Levine, J.W. Coburn, C.R. Kleeman. Interaction of somatostatin with PTH and AVP: renal effects. Amer J Physiol. 237:E428-31, 1979.
  49. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Influence of dietary magnesium in experimental phosphate depletion: bone and soft tissue mineral changes. Amer J Physiol. 237:E152-7, 1979.
  50. Levine, B., D.B.N. Lee, M. Walling, N. Brautbar, C. Kleeman, J. Coburn. Effects of 1,2 OH) 2D3 and 24,25 (OH) 2D3 alone in combination in rats. Clin Res. 1979.

51. Winkler, S., B. Levine, N. Brautbar, K. Kurokawa. Studies on the interaction between somatostatin and ADH on the vitro renal tubular cells. Clin Res. 1979.
52. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Role of magnesium balance in the development of the biochemical picture of phosphate depletion. Clin Res. 1979.
53. Brautbar, N., M. Walling, A. Montcalm, J.W. Coburn. Role of dietary phosphorus in the intestinal adaptation and response to vitamin D in phosphate depletion. 4th International Workshop on Vitamin D Metabolism, Berlin, 1979.
54. Walling, M.W., B. Levine, N. Brautbar, J.W. Coburn. Renal cortical alkaline phosphatase activity and renal retention during P depletion in vitamin D deficient rats. Amer Soc Nephrol. 1979.
55. Brautbar, N., D.B.N. Lee, J.W. Coburn, A. Montcalm, C.R. Kleeman. Role of dietary magnesium on soft tissue and bone mineral changes in phosphate depletion. Clin Res. 1979.
56. Meyer, W.A., N. Brautbar, A. Montcalm, S.G. Massry. Interaction between phosphate depletion and thiazide on urinary calcium. Clin Res. 1979.
57. Lee, D.B.N., B. Levine, M. Walling, N. Brautbar, R. Lessman, V. Sillis, J.W. Coburn. Role of 1,25 (OH) 2D3 in homeostasis of serum phosphorus. Clin Res. 1979.
58. Moser, S., N. Brautbar, V. Gura, S.G. Massry. Mechanism of the hypophosphaturia of dietary phosphate deprivation. Clin Res. 465A, 1980.
59. Brautbar, N., S. Moser, P. Finander, A. Montcalm, S.G. Massry. Biochemical changes in the myocardium during experimental phosphate depletion. Clin Res. 386A, 1980.
60. Leiboviei, H., N. Brautbar, P. Finander, S.G. Massry. Mechanism of hypophosphatemia during acute hyperventilation. 13th Annual Meeting, Amer Soc Nephrol. 2A, 1980.
61. Brautbar, N., S. Moser, P. Finander, S.G. Massry. Effects of phosphate depletion on cell membrane phospholipids and glucose pathways in the kidney, liver and skeletal muscle. 13th Annual Meeting. Amer Soc Nephrol. 6A, 1980.
62. Meyer, W.A., N. Brautbar, S. Moser, A. Montcalm, S.G. Massry. Effect of thiazide on the hypercalciuria of phosphate depletion. J Lab Clin Med. 96:830-7, 1980.
63. Lee, D.B.N., N. Brautbar, N. Walling, V. Sillis, H. Carlson, R. Grindland, J.W. Coburn, C.R. Kleeman. Role of growth and growth hormone in experimental phosphorus deprivation in the rat. Calc Tiss Int'l. 32:105-12, 1980.
64. Brautbar, N., J. Sinaberger, J. Miller, M. Nachman. Hemodialysis hypoxemia. Evaluation of mechanisms utilizing sequential ultrafiltration-dialysis. Nephron. 26:96-9, 1980.

65. Levine, B., N. Brautbar, M.W. Walling, D.B.N. Lee, and J.W. Coburn. The effects of vitamin D and diet magnesium on magnesium metabolism. *Amer J Physiol.* 239(6):E515-23, 1980.
66. Massry, SG, N. Brautbar. The interrelationship between phosphate and magnesium metabolism. *Adv Exper Med Biol.* 128:51-66, 1980.
67. Moser, S., N. Brautbar, V. Gura, C.R. Kleeman, S.G. Massry. On the mechanism of hypophosphaturia of acute and chronic dietary phosphate restriction. *Min Elect Metabol.* 5:39-48, 1981.
68. Brautbar, N., D.B.N. Lee, J.W. Coburn, C.R. Kleeman. Soft tissue and bone mineral changes in experimental phosphate depletion: the role of growth and growth hormone. *Min Elect Metabol.* 5:304-10, 1981.
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219. Regev, L., M.P. Wu, R. Zlotolow, N. Brautbar. Hydroquinone, a benzene metabolite, and leukemia: A case report and review of the literature. *Toxicol Ind Health. Toxicol Ind Health.* 2012 Feb;28(1):64-73.

**Book Chapters and Reviews:**

1. Brautbar N., M. Walling, J. Coburn. Experimental Phosphate Depletion: The Role Of Vitamin D. *Proceedings Of The 3rd International Workshop On Vitamin D. Biochemical, Chemical And Clinical Aspects Related To Calcium Metabolism.* Editors: A Normal, et, al., De Bruyer, New York, 437-9, 1977.
2. Lee, D., N. Brautbar, M. Walling, et. al. Mineral Balance And Gut Sac Transport Studies In Phosphorus Depletion Intact And Hypophysectomized Rats. 3rd International Workshop on Phosphate, Madrid, June 1977.
3. Coburn, J., N. Brautbar. Disease States In Man Related to Vitamin D. In: *Vitamin D - Molecular Biology and Clinical Nutrition.* A. Normal (Ed). Marcel Deker, New York, 515-77, 1980.
4. Brautbar, N., C.R. Kleeman. Osteodystrophy and Renal Handling of Divalent Ions in Chronic Renal Failure. *Advances in Nephrology.* 8:170-205, 1979.
5. Massry, S.G., N. Brautbar. Renal Handling of Phosphate in Renal Failure. *Renal Handling of Phosphate.* S.G. Massry, H. Fleisch (Eds). Plenum Press, New York, 307-19, 1980.
6. Lee, D.B.N., N. Brautbar, C.R. Kleeman. Disorders of Phosphorus Metabolism Disorders of Mineral Metabolism. F. Bromer, J.W. Coburn (Eds). Vol. 3, 1981.
7. Brautbar, N., M.W. Walling, J.W. Coburn. The Role of Phosphorus in the Intestinal Transport of Calcium: Studies in Vitamin D and Deficient Rats. *Phosphate and Minerals in Health and Disease.* S.G. Massry, E. Ritz, H. Jahn (Eds). Plenum Press, New York, 391-9, 1980.
8. Levine, B.S., D.B. Lee, N. Brautbar, M.W. Walling, C.R. Kleeman, J.W. Coburn. Effects on Mineral Homeostasis of 1,25 (OH) 2D3 and 23, 25 (OH) 2D3 Alone in Combination, In Rats. *Vitamin D: Basic Research and its Clinical Application.* A. Norman, K. Schaefer, D. Herrath, H. Grigoeit, J.W. Coburn, H.F. DeLuca, E.B. Mawer, T. Suda, W. DeGruyter (Eds). Berlin, New York. 429-31, 1979.
9. Levine, B.S., N. Brautbar, D.B.N. Lee, M.W. Walling, C. Kurokaw, C.R. Kleeman, J.W. Coburn. The Effect of Vitamin D3 and its Metabolism on Magnesium Metabolism. *Vitamin D: Basic Research and its Clinical Application.* A. Norman, K. Schaefer, D. Herrath, H. Grigoleit, J. Coburn, H. DeLuca, E. Mower, T. Suda (Eds). 1979.
10. Lee D.B., B.S. Levine, M.W. Walling, N. Brautbar, C.R. Kleeman, W. Millis, J.W. Coburn. Regulation of Serum Phosphorus by 1,25 (OH) D23 Vitamin D: Basic Research and its Clinical Application, op cit. 939-41, 1979.

11. Nortman, D.F., J.W. Coburn, N. Brautbar, D. Sherrard, M.R. Haussler, F.R. Singer, A.S. Erickman, R.T. Sarton. Treatment of Mesenchymal Tumor Associated Osteomalacia with 1,25 (OH) 2D3: Report of a Case. *Vitamin D: Basic Research and its Clinical Application*, op cit. 1167-9, 1979.
12. Massry, S.G., N. Brautbar. The Inter-Relationship Between Phosphate and Magnesium Metabolism. *Phosphate and Minerals in Health and Disease*. S.G. Massry, E. Ritz, H. Jahn (Eds). Plenum Press, New York, 51-66, 1980.
13. Massry, S.G., N. Brautbar, D. Goldstein. Renal Handling of Calcium Magnesium, and Phosphorus in Renal Failure. *Nephrology*. W. Flamenbrawn, R. Hamburger (Eds.) Lippincott, 159-93, 1982.
14. Brautbar, N. Extrarenal Factors in Acid Base Balance. *Seminars in Nephrology*. 1:232-50, 1981.
15. Brautbar, N., D.B.N. Lee, C.R. Kleeman. Divalent Ion Metabolism. *Contemporary Metabolism*. N. Freinkel (Ed) Plenum Press, New York. 441-509, 1982.
16. Lee, D.B.N., N. Brautbar, S.G. Massry. Renal Production and Metabolites. *Seminars in Nephrology* 1:335-55, 1981.
17. Brautbar, N., R. Baczynski, C. Carpenter, S.G. Massry. Effects of Phosphate Depletion on the Myocardium. *Regulation of Phosphate and Mineral Metabolism*. 5th International Workshop on Phosphate & Other Minerals. Plenum Press, New York, 199-207, 1982.
18. Massry, S.G., N. Brautbar. Effects of Electrolyte Disturbances on the Kidney. Textbook in Nephrology. 1:148-58. R. Glasscock, S.G. Massry (Eds). Williams and Wilkins, 1983.
19. Brautbar, N. Calcium, Magnesium, and Phosphate Excretion. Renal Physiology. D. Marsh (Ed). Raven Press, 138-50, 1983.
20. Brautbar, N., G. Gruber, D.B.N. Lee. Disorders of Calcium, Phosphorus and Magnesium. G. Gonick (Ed). Current Nephrology 7:371-487, 1984.
21. Brautbar, N., C.R. Kleeman. Hyper and Hypophosphatemia. *Therapy of Renal Diseases and Related Disorders: Current Therapy*. W. Suki, S.G. Massry (Eds). Martinus Nijhoff Publishers, 105-29, 1984.
22. Kleeman, C.R., N. Brautbar. Clinical Aspects of Impaired Phosphate Homeostasis. Clinical Disorders of Fluid and Electrolyte Metabolism. C.R. Kleeman, R. Narins (Eds). 4th Edition, McGraw Hill, 1987.
23. Nakhoul, F., G. Yu, N. Brautbar, D. Lee. Hypophosphatemia and Phosphorus Depletion. R.J. Glasscock (Ed). Current Therapy in Nephrology and Hypertension, 3rd Edition, BC Decker, Inc., 1991.
24. Brautbar, N., A. Roy, P. Hom, D.B.N. Lee. Hypomagnesemia and Hypermagnesemia. Metal Ions in Biological Systems. 26:285-320, 1990.



25. Kayne, L., A. Koteva, N. Brautbar, D.B.N. Lee. Intestinal Absorption of Phosphate. S.G. Massry, R.J. Glasscock (Eds). Textbook of Nephrology, 3rd Edition, 22(1):380-88, 1995.
26. Brautbar, N., A. Campbell. Silicone Breast Implants and Autoimmune Disease: Evidence for Causation. N. Brautbar, A. Campbell, M. Mehlman (Eds). Health Effects of Toxic Chemicals, Silicone, Asbestos, and Man-Made Fibers. Princeton Scientific Publishing, 23-36, 1994.
27. Campbell, A., N. Brautbar. Silicone Breast Implants and Immunological Disease: Historical Background and Clinical Overview. N. Brautbar, A. Campbell, M. Mehlman (Eds). Health Effects of Toxic Chemicals, Silicone, Asbestos, and Man-Made Fibers. Princeton Scientific Publishing, 243-8, 1994.
28. Lee, D.B.N., A. Campbell, N. Brautbar. Erythropoietin and the Renin-Angiotensin Axis: The Revival of an Old Association. K.S. Chugh (Ed), Asian Nephrology. Oxford University Press, 1994.
29. Lee, D.B.N., A. Campbell, N. Brautbar. Cyclosporin and the Renin Axis. K.S. Chugh (Ed), Asian Nephrology. Oxford University Press, 1994.
30. Brautbar, N., A. Campbell, M. Mehlman. Health Effects of Toxic Chemicals, Silicone, Asbestos, and Man-Made Fibers. Princeton Scientific Publishing Co., Inc., 1994.
31. Brautbar, N., A. Vojdani. The Augmented Breast. D.P. Gorczyca, R.J. Brenner (eds). Immunological and Clinical Aspects of Silicone in Women With Breast Implants. Thieme. 1997.
32. Brautbar, N. Scientific Evidence. M. Shiffman (ed). Ethics in Forensic Science and Medicine: Guidelines for the Forensic Expert and the Attorney. Charles C. Thomas Publisher, Ltd., 1999.
33. Brautbar, N. Industrial Solvents and Kidney Disease, Chapter 20.4, In: Handbook of Solvents, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2001.
34. Brautbar, N. Lymphohematopoietic Study of Workers Exposed to Benzene Including Multiple Myeloma, Lymphoma and Chronic Lymphatic Leukemia, Chapter 20.5, In: Handbook of Solvents, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2001.
35. Brautbar, N. Chromosomal aberrations and sister chromatoid exchanges, Chapter 20.6, In: Handbook of Solvents, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2001.
36. Brautbar, N. Hepatotoxicity, Chapter 20.7, In: Handbook of Solvents, George Wypych (ed), William Andrew Publishing/ChemTec Publishing, 2001.

37. Brautbar, N., J. J.A. Williams II, M.P. Wu. Chapter 12. Cardiotoxicity of industrial chemicals and environmental pollution. Cardiovascular Toxicology, Fourth Edition. D. Acosta Jr. (Ed). Informa Healthcare USA, Inc. 2008:429-545.

**Service Record and Professional Leadership:** (Past and Present)

**A. Academic Administration, Departmental, School and University Committee Membership:**

1. Committee for the course in Physiology-Renal and Electrolyte for Year I.
2. Committee for the course in Nephrology for Year II.
3. Committee for the Mechanism of Diseases for Years II and III.
4. Director of Renal Research Laboratory.
5. Member, Radiation Safety Committee.
6. Director, Renal and Electrolyte Outpatient Services, LAC/USC Medical Center.

**B. Chairmanships and Organizing Committees:**

1. Chairman of the Public Relation Committee for the Scientific Advisory Committee of the Kidney Foundation of Southern California.
2. Chairman, Annual Scientific Symposium, Kidney Foundation of Southern California.
3. Organizing Committee, Int'l. Nephrology Congress, 1984.
4. Program Chairman, 2nd Int'l. Congress on Myocardial Metabolism and Compartmentation, 1983.
5. Member, Research Committee, Scientific Advisory Committee of the Kidney Foundation of Southern California.
6. Consultant and Reviewer for multiple journals (see bibliography).
7. Chairman, Organizing Committee, American Society for Magnesium Research, 1984.
8. Chairman, Organizing Committee, 2nd Int'l. Congress on Myocardial and Cellular Bioenergetics and Compartmentation, 1984.
9. Chairman, Nephrology Section, Hollywood Presbyterian Medical Center, 1980 to present.
10. Member, Acute Utilization Review Committee, Hollywood Presbyterian Medical Center, 1983 to 1985.
11. Member, Medical Records Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1983 to 1985.

12. Chairman, Department of Medicine, Hollywood Presbyterian Medical Center. (2 years).
13. Member, Clinical Nutrition Committee, Queen of Angels/ Hollywood Presbyterian Medical Center, 1994-present.
14. Member, Quality Management Committee, Queen of Angels /Hollywood Presbyterian Medical Center, 1996.
15. Member, Emergency Room Services Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1996.
16. Chairman, Subacute Care Committee, Queen of Angels/ Hollywood Presbyterian Medical Center, 1996.
17. Member, Medicine Supervisory Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1997
18. Member, Quality Management Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1997
19. Member, Emergency Room Services Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1997
20. Member, Medicine Supervisory Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1998
21. Member, Quality Management Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1998
22. Member, Emergency Room Services Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1998
23. Vice Chairman, Department of Medicine, Queen of Angels/Hollywood Presbyterian Medical Center, 1999, 2000, 2001
24. Chairman, Pharmacy & Therapeutics Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 1999.
25. Chairman of By-Laws Committee, Queen of Angel/Hollywood Presbyterian Medical Center, 2000.
26. Member, Credentialing Committee, Queen of Angels/Hollywood Presbyterian Medical Center, 2001.
27. Vice Chairman, Department of Medicine, Queen of Angles/Hollywood Presbyterian Medical Center, 2001, 2002.

**C. Chairing Scientific Sessions in National and International Meetings:**

1. American Society of Nephrology, 1979.
2. International Society for Phosphate and Mineral Metabolism, 1978.
3. International Society for Phosphate and Mineral Metabolism, 1981.

**D. Invited Speaker, Professorship or Visiting Scientist:**

1. Annual Gordon Conference on Magnesium, 1980.
2. Visiting Scientist, Max Plank National Institute; Heidelberg, Germany, Department of Biochemistry, 1980.
3. International Society for Phosphate and Mineral Metabolism, 1981.
4. National Institute of Health, Renal and Electrolyte Laboratory, 1981.
5. Yale University and Medical School, Department of Medicine and Physiology, 1981.
6. Downstate University and V.A. Hospital, New York Medical School, 1981.
7. University of Virginia, Richmond, Department of Medicine and Nephrology, 1981.
8. International Congress for Nutrition in Uremia, 1982.
9. Harvard Medical School, Peter Brent Brigham and Women's Hospital, Division of Medicine, Department of Nephrology, 1982.
10. Mayo Clinic, Mayo Medical School, Department of Nephrology and Physiology, 1982.
11. International Society for Phosphate and Mineral Metabolism, 1983.
12. Annual Gordon Conference on Magnesium, 1984.
13. International Congress of Nephrology, 1984.
14. National Institute of Health, Renal and Electrolyte Laboratory, 1984.
15. Weitzman Institute for Sciences, Rehovot Israel, Visiting Professor, Department of Agriculture, 1988.
16. Beilinson Hospital, Tel Aviv University, Visiting Professor, Department of Medicine, 1988.
17. Collegium Ramazzini, Experimental Cancer Center, Bologna, Italy, 1995.
18. Hadassah Medical Center, Hebrew University, Department of Environmental Medicine, Israel, 1995.

19. Hadassah Medical Center, Hebrew University, Department of Immunogenetics and Tissue Typing, Israel, 1996.
20. National Institute of Public Health, Czech Republic, 1996.
21. Hebrew University-Hadassah School of Medicine, Jerusalem, Lautenberg Center for General & Tumor Immunology, Israel, 1996.
22. Autoimmune Research Institute and Department of Medicine, Sheba, Tel Hashomer Hospital, and University of Tel-Aviv, 1996.
23. Lautenberg Center for General and Tumor Immunology, Hebrew University, Hadassah Medical School, Israel, 1997.
24. Hadassah Medical Center, Hebrew University, Department of Environmental Medicine, Israel, 1997.
25. Institute of Biochemistry, Food Science and Nutrition, Hebrew University of Jerusalem, Faculty of Agriculture, Rehovot Israel, 1997.
26. Technion-Israel Institute of Technology, Department of Nephrology, Israel, 1997.
27. Hadassah Medical Center, Hebrew University, Department of Environmental Medicine, Israel, 1998.
28. Joseph H & Bell R Braun Hebrew University – Hadassah School of Public Health & Community Medicine, Department of Occupational & Environmental Medicine, Israel, 1998.
29. Baylor College of Medicine, Houston, Texas, 1998.
30. Hebrew University-Hadassah School of Medicine, Jerusalem, Lautenberg Center for General & Tumor Immunology, Israel, 1998.
31. Technion – Israel Institute of Technology, Israel, 1998
32. Bnai Zion – Medical Center, Department of Emergency Medicine, Israel, 1998
33. National Judicial College, “Science and the Courtroom”, Reno, Nevada, 1998
34. 2<sup>nd</sup> International Autoimmunity Congress, Tel Aviv, Israel, 1999
35. Israel Association for Occupational Medicine, Israel, 1999
36. Hebrew University-Hadassah School of Medicine, Jerusalem, Lautenberg Center for General & Tumor Immunology, Israel, 1999

37. Joseph H & Bell R Braun Hebrew University – Hadassah School of Public Health & Community Medicine, Department of Occupational & Environmental Medicine, Israel, 1999
38. Technion – Israel Institute of Technology, Israel, 2001
39. Joseph H & Bell R Braun Hebrew University – Hadassah School of Public Health & Community Medicine, Department of Occupational & Environmental Medicine, Israel, 2001
39. Israel Society of Occupational Medicine, First International Symposium on "The Use of Induced Sputum in Medicine", 2001
40. Department of Epidemiology, Tel Aviv University, School of Public Health, Israel, October, 2003. Visiting Professor
41. Technion Medical School Research Institute, Haifa, Israel, October, 2003. Visiting Professor
42. Department of Environmental Health, Hebrew University, Hadassa Medical Center, Israel, October 2003. Visiting Professor
43. Collegium Ramazzini, Carpi, Italy, October, 2003.
44. Attended Recent Advances in Benzene Toxicity, International Conference, October 9-12, 2004, Munich, Germany.
45. Technion Israel Institute of Technology, Ruth and Bruce Rappaport Faculty of Medicine, October, 2004 Industrial Toxic Hazards and Solvent Neuropathy.
46. Visiting Professor of Epidemiology, Hebrew University School of Public Health and Community Medicine, Occupational and Environmental Medicine, October, 2004.
47. Visiting Professor Tel Aviv University, School of Public Health, Israel, October, 2004.
48. Collegium Ramazzini, Carpi, Italy, October 2004.
49. Visiting Professor, Faculty of Medicine, Hebrew University of Jerusalem, May 13-May 19, 2009
50. Visiting Professor, Department of Epidemiology, Public Health Program, Tel Aviv University, Sackler Faculty of Medicine, May 13-25, 2009.
51. Visiting Professor, Environmental Toxicology Graduate Program, University of California, Riverside, California, February 15, 2012.

52. Visiting Professorship, Department of Immunology, Hebrew University, October 15-17, 2012.
53. Visiting Professor, Department of Epidemiology, Tel Aviv University, October 18-23, 2012.
54. Visiting Professor, National Cancer Institute “Regina Elena”, Istituti Fisioterapici Ospitalieri, Istituto Regina Elena – Istituto San Gallicano, Istituti di Ricerca e Cura a Carattere Scientifico, Rome, Italy, October 23-26, 2012.
55. Visiting Professor, Department of Epidemiology, Tel Aviv University, October 15-22, 2013.
56. Visiting Professor, Hebrew University-Hadassah Medical School, Jerusalem, Israel, October 9-14, 2015.
57. Visiting Professor, Tel Aviv University, School of Public Health, Department of Epidemiology, October 10-14, 2015.

**Teaching Record:**

1. Full-time responsibility as an Attending Staff Physician in Renal Ward for 2 months per year. This includes daily teaching rounds and consult rounds, 1977-1987.
2. Residents and Students seminars in Nephrology, 1977-1987.
3. Attending on the Student Ward for 6-8 weeks per year. This includes teaching rounds and case discussions, 1977-1987.
4. Attending on General Medicine Ward for 2-3 months per year. This includes presentation of cases, intake rounds and daily teaching rounds, 1977-1987.
5. Course in Renal Physiology - Fluids and Electrolytes, for Year I students, 1977-1987.
6. Course in Nephrology for Year II students, 1977-1987.
7. Mechanism of Disease for Years II and IV, 1977-1987.

**Past and Present Teaching:**

1. Clinical Professor of Medicine, University of Southern California School of Medicine, Department of Medicine. 1-2 months per year. Daily rounds, teaching rounds, patient care, student seminars.
2. Advisor, Collegium Salerni USC. Advisor for 1st year medical students.
3. In-office teaching (medical students), University of Southern California School of Medicine, Department of Medicine

**Civic Activity Past and Present:**

1. Member, Bereavement Committee, Sinai Temple, Los Angeles, California.
2. Member, Board of Directors, Sinai Temple, Los Angeles, 1994-1996.
3. Medical opinion for Aleph Institute, Los Angeles, California, *in kind* work, January 23, 2018.

**Testimony in State & U.S. Government Committees:**

1. California State Senate Transportation Committee, 04/15/97  
(Regarding Gasoline & MTBE Toxicity)
2. California State Senate Environmental Quality Committee, 05/12/97  
(Regarding Gasoline & MTBE Toxicity)
3. U.S. Senate Committee on Environment & Public Works, 12/02/97  
(Regarding Gasoline & MTBE Toxicity)
4. California State Senate Environmental Quality Committee, 04/15/98  
(Regarding Gasoline & MTBE Toxicity)

**Most recent speaking engagements:**

1. United States Senate Environment and Public Works Committee. Statement of Nachman Brautbar, MTBE Water Pollution, in front of the United States Senate Environment and Public Works Committee. Los Angeles, California. December 9, 1997.
2. American College of Toxicology, 25th Annual Meeting. Palm Springs, California. November 7-10, 2004. Invited Speaker.
3. Mealey's Bextra and Celebrex Litigation Conference. Chicago, Illinois. May 11, 2005. Presented on the topic of Bextra, Stevens-Johnson Syndrome, and Toxic Epidermal Necrolysis.
4. California Society of Industrial Medicine and Surgery (CSIMS) 20th Annual Mid-Summer Seminar. Anaheim, California. June 10-12, 2005. Presented on the topic of cancer presumption.
5. 3<sup>rd</sup> International Scientific Conference of the Collegium Ramazzini, Framing the Future in Light of the Past: Living in a Chemical World. Bologna, Italy. September 18-21, 2005. Presented two manuscripts: 1) Brautbar N, Wu MP, Gabel E, Regev L. Industrial, non-chlorinated solvent exposure and kidney cancer. Collegium Ramazzini, 2005. Abstract for Framing the Future in the Light of the Past Living in a Chemical World, The 3rd International Scientific Conference Bologna, September 18-21, 2005; 2) Brautbar N, Wu MP. Medical monitoring to early detect and cure from a latent disease. Collegium Ramazzini, 2005. Abstract for Framing the Future in the Light of the Past Living in a Chemical World, The 3rd International Scientific Conference Bologna, September 18-21, 2005.



6. HarrisMartin's Benzene Litigation Conference. Marina del Rey, California. September 29-30, 2005. Presented on the following topic: "General Causation to Specific Causation."
7. Los Angeles Valley Applicants' Attorneys Association. Encino, California. March 8, 2006. Presented on the following topic: "AMA 5<sup>th</sup> Guides Application for Impairment Rating."
8. Harbor Chapter of the California Applicant's Attorneys Association. Long Beach, California. March 21, 2006. Presented on the following topic: "AMA 5<sup>th</sup> Guides Application for Impairment Rating."
9. American Bar Association Toxic Torts & Environmental Law Committee Meeting. "Science and the Law 2006: A Day in the Life of Toxic Torts and Environmental Law." Phoenix, Arizona. April 7, 2006. Presented on the following topic: "Recent News in Benzene and Hematopoietic Malignancies."
10. California Society of Industrial Medicine and Surgery (CSIMS) 21st Annual Mid-Summer Seminar. Incline Village, Nevada. June 9-11, 2006. Presented on the following topic: "Apportionment 2006."
11. Mealey's Benzene Litigation Conference. Marina del Rey, California. June 12-13, 2006. Presented on the following topic: "Low Levels of Benzene and Hematopoietic Malignancies."
12. California Department of Industrial Relations, Division of Occupational Safety and Health (DOSH), better known as Cal/OSHA. First Advisory Meeting on Diacetyl and Chemicals in the Flavor Manufacturing Industry in California. Oakland, California. September 28, 2006.
13. HarrisMartin's Benzene Litigation Conference. Las Vegas, Nevada. May 17-18, 2007. Presented on the following topic: "Benzene Exposure Levels."
14. Mealey's Benzene Litigation Conference. Santa Monica, California. June 4-5, 2007. Presented on the following topic: "Benzene Exposure Levels and Leukemia."
15. Los Angeles Metropolitan Applicants' Attorney Association (LAMAAA). Commerce, CA. August 23, 2007. Presented on the following topic: "Tackling the AMA Guides: Internal Medicine. Impairment Rating. AMA 5<sup>th</sup> Guides."
16. HarrisMartin's Benzene Litigation Conference: Trial of a Benzene-Leukemia Case from Jury Selection to Verdict Agenda. New York, New York. December 3-4, 2007. Presented on the following topic: "Medical Causation - Examination of Plaintiff and Defense Causation Experts. Benzene and Acute Myeloid Leukemia."

17. Southern California Applicant's Attorneys Association (SCAAA). Los Angeles, California. February 18, 2009. Presented on the following topic: "Handling Sleep Impairment and the Compensable Consequences."
18. Latino Association of Workers' Compensation Professionals. Monterey Park, California. March 19, 2009. Presented on the following topic: "How to Master the Compensable Internal Consequences of an Orthopedic Injury. Impairment Rating, AMA 5<sup>th</sup> guides. How to Master the Internal Medicine."
19. HarrisMartin's Benzene Causation Conference. Las Vegas, Nevada. May 24-25, 2010. Presented on the following topic: "Medical Causation in Cases Involving Benzene and Multiple Myeloma."
20. HarrisMartin's Conference-Benzene Litigation and Lymphoid Cancers: New Scientific Evidence. Marina del Rey, California. December 9, 2010. Presented on the following topic: "Medical Causation in Cases Involving Benzene and Acute Lymphocytic Leukemia (ALL)."
21. Hadassah Medical Center/Hebrew University. "Effects of benzene and solvents on the immune system." June 2011.
22. Tel Aviv University, Department of Epidemiology. "Solvent exposure and target organ damage." June 2011.
23. Annual Ramazzini Days Meeting 2011. Collegium Ramazzini. Scientific Committee member and meeting participant. Carpi, Italy. October 28-30, 2011.
24. California Applicants' Attorneys Association (CAAA). CAAA 2012 Winter Convention. Rancho Mirage, California. January 29, 2012. Presented on the following topic: "Protecting Your Client's Medical Care: Medical Treatment Utilization Schedule (MTUS) and Internal Medicine."
25. Environmental Toxicology Graduate Program seminar series. University of California, Riverside, California. February 15, 2012. Presented on the following topic: "Causation Revisited: from Daubert to Milward."
26. Tel Aviv University, Department of Epidemiology. Presented on the following topics: "Benzene exposure", "Benzene Affecting the Immune System", "Benzene and Leukemia", "Benzene and Lymphomas", "Hydroquinone and Hematotoxicity". February - March 2012.
27. California Applicants' Attorneys Association (CAAA). Support Staff Seminar. Los Angeles, California. March 10, 2012. Presented on the following topic: "Compensable Consequences of Industrial Injuries."
28. American Bar Association (ABA), Spring Meeting on Toxic Torts. Mock Trial of a Toxic Tort Case. Phoenix, Arizona. March 31, 2012. Participated in a mock trial on benzene toxicity, solvents toxicity and lymphomas.

29. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 28<sup>th</sup> Annual Mid-Summer Seminar. Westin Hotel, San Diego, CA. June 14-16, 2012. Participated on panel: “Surviving and Thriving in a Deposition”. Specialty Specific Breakout Session: Internal Medicine, presented on the following topic: “1. Precautionary tale of medication use and consequences of industrial injuries; 2. Medical foods in workers’ compensation.”
30. Collegium Ramazzini. Mount Sinai School of Medicine, New York. June 28, 2012. Presented on the following topic: “Benzene and multiple myeloma.”
31. Hebrew University, Department of Immunology. October 15-17, 2012. Genotoxicity and immunotoxicity of industrial solvents.
32. Tel Aviv University, Department of Epidemiology. October 18-23, 2012. Presented on the following topics: “Solvents, genotoxicity and immunotoxicity”.
33. National Cancer Institute “Regina Elena”, Istituti Fisioterapici Ospitalieri, Istituto Regina Elena – Istituto San Gallicano, Istituti di Ricerca e Cura a Carattere Scientifico. Rome, Italy, October 23-26, 2012. Presented on the following topics: Carcinogenic effects of chemicals on the gastrointestinal tract.
34. LawWorm.com Seminars. The Queen Mary Grand Salon. January 19, 2013. Presented on the following topic: “New and underutilized PD litigation strategies, new regulations, case law update, and the entire playing field post SB 863.”
35. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 28<sup>th</sup> Annual Mid-Summer Seminar. Fairmont Hotel, Newport Beach, CA. June 20-23, 2013. Specialty Specific Breakout Session: Internal Medicine, presented on the following topic: “Precautionary tale of medication use, drug interactions and consequences of industrial injuries.”
36. Tel Aviv University, Department of Epidemiology. October 15-22, 2013. Presented on the following topics: “Solvents, genotoxicity and immunotoxicity”.
37. State of California, Department of Industrial Relations, Division of Workers’ Compensation. “Internal Medicine: Improving Outcomes When Red Flags Fly.” 22<sup>nd</sup> Annual Education Conference LAX Marriott Hotel. Los Angeles, CA. February 10, 2015.
38. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 30<sup>th</sup> Annual Mid-Summer Seminar. Hyatt Regency, Long Beach, CA. June 19-20, 2015. a) Specialty Specific Breakout Session: Internal Medicine. In small groups, the audience analyzes case studies discussing the intricacies and pitfalls of each, from both a treating and forensic perspective. Each group will then bring back the results of their analysis to the entire group. b) Right reporting: Nachman Brautbar, M.D. (causation), WCJ (ret.) Pamela Foust, Esq., Richard Lieberman, M.D., Peter Mandell, M.D.

39. Hebrew University-Hadassah Medical School, Jerusalem, Israel, October 9-14, 2015. Lecture on the role of topoisomerase in carcinogenesis.
40. Tel Aviv University, School of Public Health, Department of Epidemiology, October 10-14, 2015. Seminars on the mechanisms of benzene carcinogenicity and genetic and epigenetic mechanisms.
41. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 31<sup>st</sup> Annual Mid-Summer Seminar. Paradise Point Resort and Spa, San Diego, CA. June 16-18, 2016. Specialty Specific Breakout Session: Internal Medicine. In small groups, the audience analyzes case studies discussing the intricacies and pitfalls of each one, from both a treating and forensic perspective. Each group will then bring back the results of their analysis to the entire group.
42. California Society of Industrial Medicine and Surgery (CSIMS). CSIMS 32<sup>st</sup> Annual Mid-Summer Seminar. Resort at Squaw Creek, Olympic Valley, CA. June 8-10, 2017. Moderator for Session 3: Apportionment (Through use of case studies, and court findings, Dr. Brautbar and Judge Correio will present the details and critical nuances of proper assessment and reporting of apportionment of disability.). Moderator for Session 4: Accuracy Defined (Dr. Brautbar and Judge Correio continue their presentation, focusing now on the approaches, techniques and tools available to evaluators in order to correctly and accurately describe impairment pursuant to court opinions and the content of the AMA Guides itself.). Panelist for Specialty Specific Breakout Session 7: Internal Medicine (Panelists present case studies that require use of the critical evaluation skills presented during the morning sessions about apportionment and accurate reporting of disability. In addition to the didactic presentation, utilizing small group analysis of relevant case studies, breakout session attendees will discuss, develop and present findings of apportionment and disability to the larger group.).
43. Los Angeles Valley Applicants Attorneys Association (LAVAAA). LAVAAA meeting. October 12, 2017. Panelist on "Treating on a Lien".
44. San Fernando Valley Bar Association (SFVBA). SFVBA Workers' Compensation Section: Commonly Forgotten Diagnoses. Monterey at Encino. April 18, 2018. Presentation: "Underdiagnosed and Overdiagnosed Medical Conditions."