

CURRICULUM VITAE

August 1, 2006

David E. Wazer, MD**Professor and Chairman**

Department of Radiation Medicine
Brown University School of Medicine

Radiation Oncologist-in-Chief

Rhode Island Hospital
Women & Infants' Hospital

President

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EDUCATION

1978	A.B. (Honors) Summa Cum Laude	Holy Cross College Worcester, MA
1982	M.D. (Honors)	New York University School of Medicine New York, NY

HONORARY DEGREES

1999	Master of Arts (ad eundem)	Brown University Providence, RI
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POSTDOCTORAL TRAINING

1982-1983	Intern (Medicine)	Roger Williams General Hospital Brown University Providence, RI
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1983-1984	Research Fellow (Neurochemistry)	Department of Psychiatry Laboratory of Dr. John Rotrosen New York University School of Medicine New York, NY
1985-1987	Resident (Radiation Oncology)	New England Medical Center Tufts University Boston, MA
1987-1988	Chief Resident (Radiation Oncology)	New England Medical Center Tufts University Boston, MA

OTHER PROFESSIONAL EXPERIENCE

1983-1985	Commissioned officer, US Public Health Service, National Health Service Corps, Primary Care Physician, Jamaica Hospital, Queens, NY	
1990	Consultant, Wang Associates Healthcare Communications, New York, NY	
1992-1997	Consultant, Physician World Communications Group, Secaucus, NJ	
1997	Consultant, Impact Communications New York, NY	
1998-2000	Member, Medical Advisory Board for New England, Vida Healthcare, Inc.	
1999-	Consultant, Harvard Risk Management Foundation, Boston, MA	
2001	Medical Advisory Board, Medical Media Systems, Hanover, NH	
2001-	Executive Vice President and Chief Medical Officer, Chinese American Cancer Institute, Boston, MA	
2005-	Medical Advisory Board, Advanced Radiation Therapy Corporation	

LICENSURE AND CERTIFICATION

1983	Diplomate, National Board of Medical Examiners	
1988	Diplomate, American Board of Radiology (Therapeutic)	
1983-1985	Licensed, State of New York (not renewed upon relocation to Massachusetts)	
1985-	Licensed, Commonwealth of Massachusetts (#59408)	
1998-	Licensed, State of Rhode Island (#9674)	

ACADEMIC APPOINTMENTS

1985-1988	Teaching Fellow Radiation Oncology	Tufts University Boston, MA
1988-1992	Assistant Professor Radiation Oncology	Tufts University Boston, MA
1992-1996	Associate Professor Radiation Oncology	Tufts University Boston, MA

1992-1994	Research Affiliate Nuclear Reactor Laboratory	Massachusetts Institute of Technology Cambridge, Massachusetts
1994-1996	Visiting Scientist Nuclear Reactor Laboratory	Massachusetts Institute of Technology Cambridge, Massachusetts
1995-1998	Vice Chairman Radiation Oncology	Tufts University Boston, MA
1998-	Professor and Chairman Radiation Oncology	Brown University Providence, RI

ACADEMIC MEDICAL CENTER APPOINTMENTS

1988-1990	Assistant Radiotherapist	New England Medical Center Boston, MA
1990-1993	Radiotherapist	New England Medical Center Boston, MA
1990-1996	Clinical Director Radiation Oncology	New England Medical Center Boston, MA
1993-1996	Associate Radiotherapist-in-Chief	New England Medical Center Boston, MA
1998-	Radiation Oncologist-in-Chief	Rhode Island Hospital Providence, RI
1999-	Radiation Oncologist-in-Chief	Women & Infants' Hospital Providence, RI

COMMUNITY HOSPITAL APPOINTMENTS

1990-1992	Consultant	Whidden Memorial Hospital, Stoneham, MA
1995-2001	Consultant	Newton-Wellesley Hospital, Newton, MA
1995-2002	Consultant	Carney Hospital, Dorchester, MA
1995-2001	Consultant	Milton Hospital, Milton, MA
2000-	Consultant	Saints Memorial Medical Center, Lowell, MA

BOARD MEMBERSHIPS/DIRECTORSHIPS

2001-	Member, Board of Governors, Rhode Island Hospital
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NEMC/TUFTS MEDICAL SCHOOL COMMITTEE ASSIGNMENTS

1987-1989	Member, New England Medical Center Bone Marrow Transplant Committee.
1988-1990	Member, New England Medical Center Basic Research Support Grant (BMSG) Committee.
1991-1992	Member, Center One Program Task Force Committee.
1991	Member, Hematology/Oncology Growth Task Force.
1991	Member, TMCA Reorganization Advisory Group.
1992-1994	Member, Scientific Advisory Committee for the New England Medical Center Clinical Study Unit.
1992-1993	Member, Physician Satisfaction Survey Committee.
1993-1995	Chair, Cancer information management committee.
1993-1995	Member, Network Development Physicians Advisory Committee.
1994-1995	Member, Radiology Chair Search Committee.
1995-	Member, Physician advisory Committee to the Hunter Consulting Group.
1996-1997	Chairman, Tufts/NEMC Cancer Center Steering Committee
1997-	Member, NEMC/Lifespan Cancer Center Executive Committee
1996-	Member, Dean's Executive Committee, Tufts University School of Medicine
2001-	Member, Finance Committee, New England Healthcare Foundation
2002-	Chair, Search Committee for the Department of Dermatology Chair
2004	Chair, Second Search Committee for Dermatology Chair

RIH/WOMEN & INFANTS'/BROWN MEDICAL SCHOOL COMMITTEE ASSIGNMENTS

1998-2000	Member, Search Committee, Brown University Cancer Center Directorship and Chief of Hematology/Oncology
1998-	Member, RIH Joint Clinical Management Group
1999-2000	Member, RIH Medical Executive Committee
1999-2000	Member, Lifespan/Care New England Oncology Service Work Line Committee
1999-2000	Member, Search Committee, Brown University/RIH Department of Surgery Chair
1999-	Member, Brown University/Lifespan Cancer Center Strategic Planning Committee
1999-	Member, Lifespan Academic Council
2000-	Member, Lifespan Oncology Core Group
2001-	Member, Brown University Postgraduate Referral Committee
2004-2006	Member, RIH Medical Executive Committee
2004-2006	Member, Search Committee for Heme/Onc Division Chief

NATIONAL COMMITTEE ASSIGNMENTS

1989-1990	Member, Advisory and Planning Committee for the Sixth International Congress for Breast Diseases.
1991-1992	Chairman, Scientific Program Committee for the

- Gilbert Fletcher Society Meeting, Dominican Republic, May, 1992.
- 1993- Site review auditor for the Accreditation Council for Graduate Medical Education (ACGME).
- 1994- Member, Long Range Planning Committee of the American Society of Therapeutic Radiology and Oncology.
- 1995-1996 Chair, Publication and Communications Committee, Peacock User's Group.
- 1995- Member, CNS tumor Committee, Peacock User's Group.
- 1995 Strategic Planning Committee, Research Needs for Neutron Capture Therapy, U.S. Department of Energy
- 1995- Oral Examiner, American Board of Radiology.
- 1997- Member, Item-Writing Task Force for the American Board of Radiology (ABR) re-certification exam.
- 1998-1999 Board of Directors, Massachusetts Society of Clinical Oncology
- 1988-1999 Medicare Carrier Advisory Committee Work Group (radiation oncology)
- 1999 , 2000 National Cancer Institute, Program Project Grant Site Review Team
- 2001 Planning Committee, 6th International Symposium on 3D Conformal Therapy and Intensity Modulated Radiation Therapy
- 2004-2005 External Advisory Committee, Medical Physics Program Project Grant, Massey Cancer Center, Virginia Commonwealth University, Richmond, VA
- 2005 Scientific Program Committee, 87th Annual Meeting of the American Radium Society, Barcelona, Spain, April 29-May 5, 2005.

TEACHING RESPONSIBILITIES

- 1985-1993 Lecturer, Fundamentals of Cancer Biology Course and Clinical Oncology Course, Laboure College/New England Medical Center Radiation Therapy Technology School.
- 1988-1992 Lecturer, fundamentals of radiation oncology for dermatology residents in the combined Tufts/BU training program
- 1989-1994 Coordinator, Radiation Oncology weekly grand rounds.
- 1990- Coordinator, basic medical statistics course for radiation oncology residents and staff.
- 1991- Assistant Coordinator and lecturer, radiation biology course for residents.
- 1991- Coordinator and lecturer, fundamentals of radiation oncology for medical oncology fellows (4 week program).
- 1991- Clinical Advisor to senior medical students.

PROFESSIONAL SOCIETIES

American Society of Therapeutic Radiology and Oncology
 Radiation Research Society
 American Society of Clinical Oncology
 American College of Radiation Oncology
 American College of Radiology

American Radium Society
 American Association for the Advancement of Science
 American Brachytherapy Society

NATIONAL RESEARCH GROUP MEMBERSHIPS

1988-1993	National Surgical Adjuvant Breast and Bowel Project
1988-	Eastern Cooperative Oncology Group
1988-1992	Cooperative Ocular Melanoma Study
1989-1992	Radiation Therapy Oncology Group
1995-1996	Peacock User's Group

MAJOR RESEARCH INTERESTS

- 1.) Theoretical modeling and clinical applications of image-guided radiation therapy.
- 2.) Clinical trials in breast, melanoma, and gastrointestinal tumors.
- 3.) Laboratory investigation of radiation-induced malignancies and alterations in cellular phenotype.

SPECIAL CLINICAL PROGRAMS INITIATED AT BROWN/RIH/W&I

1999	High dose-rate brachytherapy
1999	Intensity modulated conformal therapy
1999	3D treatment planning
2001	CT simulation
2002	Monte Carlo Treatment Planning
2002	MLC Intensity modulation
2002	MammoSite Brachytherapy/APBI
2003	External Beam APBI
2005	Xoft Brachytherapy
2005	Interstitial and deep hyperthermia
2005	Cone beam CT
2005	Image-guided radiation therapy
2005	Stereotactic body radiosurgery

RESEARCH SUPPORT

Grant title: A Clinical Trial of Neutron Capture Therapy for Brain Tumors
 Funding Agency: US Department of Energy (#87ER6060)
 Amount: \$1,800,000.00
 Period: 5/90-5/93
 Role: Investigator (P.I.- R. Zamenhof, PhD)

Grant title: Clinical Applications of Boron Neutron Capture Therapy
 Funding Agency: US Department of Energy (#94ER6060)
 Amount: \$3,600,000.00

Period: 5/94-5/97

Role: Investigator (P.I. - R. Zamenhof, PhD)

Grant Title: Growth factor induction in human breast carcinoma cells with ionizing radiation.

Funding Agency: NEMC Breast Health Center Research Fund

Amount: \$5,000.00

Period: 6/90-6/91

Role: Principal investigator

Grant Title: Modulations in the radiosensitivity of human breast carcinoma by estrogens and tamoxifen.

Funding Agency: NEMC BRSG fund

Amount: \$7,500.00

Period: 11/88-11/89

Role: Principal investigator

Grant Title: Intensity Modulated Radiation Therapy Training Program Fellowships.

Funding Agency: The NOMOS Foundation

Amount: \$200,000.00

Period: 10/1/96-6/30/99

Role: Principal investigator

Grant Title: Correlation of CT simulation with three dimensional planning using Monte Carlo computer code for radiation therapy.

Funding Agency: Marconi Corporation

Amount: \$90,000.00

Period: 1/1/2002-1/1/2003

Role: Principal investigator

Grant Title: XOFT brachytherapy for early breast cancer

Funding Agency: Xoft Corporation

Amount: \$120,000

Period: 10/1/2005-11/30/2007

Role: Principal investigator

EDITORIAL ACTIVITY

Editor-in-Chief: *American Journal of Clinical Oncology*, 2003-

Editor-in-Chief: *Radiation Oncology Investigations*, 2002- 2003

Associate Editor: *Radiation Oncology Investigations*, 1995-2002

Editorial Board: *Brachytherapy*, 2005-

Breast Diseases: A Year Book Quarterly, 2005-

Ad hoc reviewer:

New England Journal of Medicine
Breast Diseases
International Journal of Radiation Biology
Cancer
Diagnostic Molecular Pathology
Annals of Surgical Oncology
Radiation Research
International Journal of Radiation Oncology, Biology, and Physics
American Journal of Clinical Oncology
Journal of the National Cancer Institute
International Journal of Cancer
Breast Cancer Research and Treatment
Medical Physics
Clinical Breast Cancer
Brachytherapy
Clinical Cancer Research

Editorial Board: "*Cancer Manual, Ninth Edition*", American Cancer Society.

Reviewer: UICC/International Cancer Technology Transfer Fellowship Program.

TEXTBOOKS AND MONOGRAPHS

- 1) **D.E. Wazer**, guest editor of "Surgical Oncology Clinics of North America", "Practical Radiation Oncology for the Surgical Oncologist", W.B. Saunders Co., Philadelphia, PA; July, 2000.
- 2) **D. E. Wazer**, co-editor (with R. Schmidt-Ullrich, T. Bortfeld, W. De Neve), "Image-guided IMRT". Springer-Verlag, Heidelberg. Released December, 2005
- 3) **D. E. Wazer**, (lead and managing editor). Co-editors: D. Arthur, F. Vicini. "Accelerated Partial Breast Irradiation". Springer-Verlag. In production.
- 4) **D. E. Wazer** (associate editor) "Principles and Practice of Radiation Oncology, 5th Edition" (with E. Halperin, C. Perez, L. Brady). Lippincott, Williams and Wilkins, In production.

REFEREED PAPERS

- 1) M. Stanley, J. Rotrosen, **D. Wazer**, A. Lautin and S. Gershon; Tardive Dyskinesia and Metoclopramide. *Lancet*, 1979; ii:1190.
- 2) J. Rotrosen, M. Stanley, C. Kuhn, **D. Wazer** and S. Gershon; Experimental Dystonia Induced by Quaternary Chlorpromazine. *Neurology*, 30; 878-881, 1980.
- 3) A. Lautin, **D. Wazer**, M. Stanley, J. Rotrosen and S. Gershon; Chronic Treatment with Metoclopramide Induces Behavioral Supersensitivity to Apomorphine and Enhances Binding of 3H-Spiroperidol to Rat Striata. *Life Sciences*, 27; 306-316, 1980.
- 4) J. Rotrosen, M. Stanley, A. Lautin, **D. Wazer** and S. Gershon; Discrimination of Functionally Heterogeneous Receptor Subpopulations: Antipsychotic and Antidopaminergic Properties of Metoclopramide. *Psychopharm. Bull.* 17; 110-113; 1981.
- 5) M. Stanley, **D. Wazer**, J. Virgilio, C. Kuhn, D. Benson and L. Meyerson; Lack of Potency of Metoclopramide's Metabolites in Various Dopaminergic Models. *Pharmac., Biochem., and Behav.*, 18; 262-266, 1983.
- 6) M. Stanley and **D. Wazer**; High Plasma Concentrations of Metoclopramide are not Detected by Radioreceptor Assay. *Neuropsychobiology* 10(2-3); 108-110, 1983.
- 7) **D. Wazer**, D. Cordasco, D. Segarnick, A. Lippa, L. Meyerson, D. Benson and J. Rotrosen; Norepinephrine Stimulation of Phospholipid Methylation in Rat Cortical Synaptosomes: Fact or Artifact? *Life Sciences* 31; 1184-1199, 1984.
- 8) D. Cordasco, **D. Wazer**, D. Segarnick, A. Lautin, A. Lippa and J. Rotrosen; Phospholipid Methylation in Platelets and Brain. *Psychopharm. Bull.*, 18(3), 193-197, 1982.
- 9) **D. Wazer** and J. Rotrosen; Murine Lymphocytes Lack Clearly Defined Receptors for Muscarinic and Dopaminergic Ligands. *J. of Pharm. and Pharmac.*, 36(12); 83-84, 1984.
- 10) **D. Wazer**, M. Keisch, W. Koch, C. Karmody and R. Schmidt-Ullrich; Combined Radiotherapy and Composite Resection in the Management of Advanced Head and Neck Cancer. *Strahlentherapie und Onkologie*, 165(1); 18-23, 1989.
- 11) **D. Wazer**, O. Tercilla, P-S. Lin and R. Schmidt-Ullrich; Modulation in the Radiosensitivity of MCF-7 Human Breast Carcinoma Cells by 17B-Estradiol and Tamoxifen. *Brit. Jour of Radiol.*, 62; 1079-1083, 1989.
- 12) **D. Wazer**, R. Schmidt-Ullrich, W. Chasin, A. Wu and M. Buscher; High Dose Boost Irradiation Techniques for Carcinoma of the Nasopharynx. *Am. J. Otolaryngol.* 10; 173-180, 1989.
- 13) R. Schmidt-Ullrich, **D.E. Wazer**, O. Tercilla, H. Safaii, D. Marchant, T. Smith, M. Homer,

and N. Robert; Tumor Margin Assessment as a Guide to Optimal Conservation Surgery and Irradiation in Early Stage Breast Carcinoma. *Int. Jour. Rad. Biol. Onc. Phys.*, 17:733-738, 1989.

- 14) **D. E. Wazer**, M. Sinesi, R. Schmidt-Ullrich, T. Smith, H. Safaii, D. Marchant, N. Robert, and M. Homer; The Importance of surgical and pathological determinants of Tumor Margin status in Breast Conservation Therapy. *Breast Disease*, 4:285-292, 1991.
- 15) **D. E. Wazer**, R. Schmidt-Ullrich, M. Homer, H. Safaii, O. Tercilla, T. Smith, D. Marchant, and N. Robert; The Utility of Pre-operative Physical Examination and Mammography for Detecting an Extensive Intraductal Component in Early Stage Breast Carcinoma. *Breast Disease*, 3:181-185, 1990.
- 16) H. Madoc-Jones, **D. E. Wazer**, R. G. Zamenhof, O. Harling, J. Bernard; Clinical Considerations for Neutron Capture Therapy of Brain Tumors. *Basic Life Sci* 54:23-35; 1990.
- 17) R. G. Zamenhof, S. D. Clement, O. Harling, J. Brenner, **D. E. Wazer**, H. Madoc-Jones, J. Yanch; Monte Carlo Based Dosimetry and Treatment Planning for Neutron Capture Therapy of Brain Tumors. *Basic Life Sci* 54:283-305; 1990.
- 18) C. Hillyer, R. Comenzo, K. Miller, **D. Wazer**, J. Desforges, R. Rudders, D. Scheinkein, R. Abrams, E. Berkman; Prompt Engraftment Using Autologous Peripheral Blood Stem Cells (PBSC) in Double Autologous Bone Marrow Rescue (BMR). *Amer. Jour. Hematology* 36:152-153, 1991.
- 19) R. Schmidt-Ullrich, C. Johnson, **D. Wazer**, G. Masko. Accelerated Superfractionation for Advanced Carcinoma of the Head and Neck: Concomitant Boost Technique. *Int. J. Rad. Oncol. Biol. Phys.* 23(3):563-568, 1991.
- 20) **D. Wazer**, M. Joyce, G. Solares, R. Schmidt-Ullrich. Proliferative inhibition of human breast carcinoma cells by high concentrations of 17 β -estradiol does not alter radiosensitivity. *Breast Cancer Research and Treatment* 18:141-148, 1991.
- 21) O. Harling, R. Zamenhof, J. Yanch, R. Choi, G. Solares, R. Rogus, D. Moulin, L. Johnson, I. Olmez, S. Wirdzek, J. Bernard, C. Nwanguma, **D. Wazer**, S. Saris, C. Sledge, H. Madoc-Jones; Boron Neutron Capture and Radiation Synovectomy Research at the MIT Research Reactor. *J. Nucl. Sci. Engin.* 110:330-348, 1992.
- 22) R. Schmidt-Ullrich, W. Chan, K. Valerie, **D. E. Wazer**, P.S. Lin; Expression of estrogen receptor and transforming growth factor alpha in MCF-7 cells after exposure to fractionated irradiation. *Int. J. Radiat. Biol.*, 61(3):405-315, 1992.
- 23) R. Zamenhof, H. Madoc-Jones, O. Harling, **D. Wazer**, S. Saris, J. Yanch. The neutron capture therapy research program at New England Medical Center and the Massachusetts Institute of Technology. Proceedings of the International Society of Neutron Capture Therapy, Plenum press, 1992.

- 24) R. Zamenhof, J. Brenner, J. Yanch, **D. Wazer**, H. Madoc-Jones, S. Saris, O. Harling. Treatment planning for neutron capture therapy of glioblastoma multiforme using an epithermal neutron beam from the MITR-II research reactor and monte carlo simulation. Proceedings of the International Society of Neutron Capture Therapy, Plenum press, 1992.
- 25) G. Solares, R. Zamenhof, S. Saris, **D. Wazer**, S. Kerley, M. Joyce, H. Madoc-Jones, L. Adelman, O. Harling. Biodistribution and pharmacokinetics of p-boronophenylalanine in C7BL/6 mice with GL261 intracerebral tumors and survival following neutron capture therapy. Proceedings of the International Society of Neutron Capture Therapy, Plenum press, 1992.
- 26) D. D. Karp, B. D. T. Daly, N. Robert, R. Abrams, T. O'Connor, N. DiMartino, J. Diehl, **D. E. Wazer**, B. Willett, R. Heidbreder, M. Bankoff, B. Fanburg, L. Faling; A randomized pilot study of radiation therapy with or without concomitant cisplatin and etoposide as adjuvant therapy in non small cell lung cancer. p. 325-336 in "Lung cancer differentiation: implications for diagnosis and treatment". eds. S. Bernal and P. Hesketh, Marcel Dekker, New York, 1992.
- 27) C. Johnson, R. Schmidt-Ullrich, and **D. E. Wazer**; Concomitant boost technique using accelerated superfractionated radiotherapy for advanced squamous cell carcinoma of the head and neck. *Cancer*, 69:2749-2754, 1992.
- 28) **D. E. Wazer**, T. DiPetrillo, R. Schmidt-Ullrich, L. Weld, T. Smith, D. Marchant, N. Robert. Factors influencing cosmetic outcome and complication risk after conservative surgery and radiotherapy for early stage breast carcinoma. *Jour. Clin. Oncol.*, 10(3):356-363, 1992.
- 29) **D. E. Wazer**, M. Joyce, W. Chan, R. Schmidt-Ullrich. The effects of tamoxifen on the radiosensitivity of hormonally responsive and un-responsive breast carcinoma cells. *Rad Oncol Invest*, 1(1):20-28, 1993.
- 30) R. Schmidt-Ullrich, **D. E. Wazer**, T. DiPetrillo, T. Smith, D. Marchant. Breast Conservation therapy for early stage breast carcinoma with outstanding 10-year locoregional control rates. A case for aggressive therapy to the tumor bearing quadrant. *Int J Radiat Oncol Biol Phys*, 27:545-552, 1993.
- 31) S. Saris, G. Solares, **D. Wazer**, G. Cano, S. Kerley, M. Joyce, L. Adelman, O. Harling, H. Madoc-Jones, R. Zamenhof. Boron neutron capture therapy for primary murine brain tumors. *Cancer Res.* 52:4672-4677, 1992.
- 32) **D. E. Wazer**, M. Joyce, L. Jung, V. Band. Alterations in growth phenotype and radiosensitivity after fractionated irradiation of breast carcinoma cells from a single patient. *Int J Radiat Oncol Biol Phys*, 26:81-88, 1993.
- 33) K. Radie-Keane, **D. E. Wazer**, R. Schmidt-Ullrich. Loco-regional control of inflammatory carcinoma of the breast with accelerated superfractionated radiotherapy. *Breast Dis* 7:59-68, 1994.
- 34) R. Graham, M. Atkins, D. Karp, **D. Wazer**, A. Hackford. Local excision of rectal carcinoma:

Early results with combined chemoradiation therapy using 5-fluorouracil and leucovorin. *Dis Colon Rectum*, 37:308-312, 1994.

- 35) C. Hillyer, J. Hall, D. A. Lackey, **D. E. Wazer**. Development of a colorimetric dosimeter for quality control of blood units and irradiators. *Transfusion*, 33:898-901, 1993.
- 36) E. Oates, P. Touliopoulos, **D. E. Wazer**. Demonstration of unilateral sialadenitis on post-radiotherapy Gallium-67 Citrate imaging. *J. Nucl. Med.*, 34(6):953-954, 1993.
- 37) R. Zamenhof, **D. E. Wazer**, J. Bernard, O. Harling, T. Dipetrillo, H. Madoc-Jones, J. Coderre, A. Meek. Federal and institutional approvals necessary prior to a US clinical trial of neutron capture therapy. Proceedings of the fifth International Symposium on Neutron Capture Therapy, 1993.
- 38) O. Harling, R. Rogus, J. Chabeuf, S. Yam, F. Lambert, J. Yanch, R. Zamenhof, G. Solares, **D. E. Wazer**, H. Madoc-Jones. Preparations for clinical trials of NCT at the MIT reactor and the New England Medical Center. Proceedings of the Fifth International Symposium on Neutron Capture Therapy, 1993.
- 39) S. Hauser, L. Calorini, **D. E. Wazer**, S. Gattoni-Celli. Radiation-enhanced expression of major histocompatibility complex (MHC) class I antigen H-2Db in B-16 melanoma cells. *Cancer Research*, 53:1952-1955, 1993.
- 40) G. Solares, R. Zamenhof, **D. E. Wazer**, T. DiPetrillo, S. Saris, G. Cano, O. Harling. Effects of fractionation of boron neutron capture therapy in a mouse glioma model. Proceedings of the Fifth International Symposium on Neutron Capture Therapy, 1993.
- 41) R. Zamenhof, J. Brenner, J. Yanch, C. Gung, E. Redmond, **D. Wazer**, H. Madoc-Jones. Monte Carlo based treatment planning for neutron capture therapy using custom designed phantoms automatically generated from CT data. Proceedings of the Fifth International Symposium on Neutron Capture Therapy. 1993.
- 42) O. Tercilla, **D. E. Wazer**, R. Schmidt-Ullrich. Accelerated superfractionation for re-irradiation of head and neck neoplasms. *Strahlentherapie und Onkologie* 169:285-290, 1993.
- 43) M. Engler, B. Curran, J. Tsai, E. Sternick, W. Selles, **D. E. Wazer**, W. Mason, T. Sailor, T. Mackie. Fine tuning of linear accelerator accessories for stereotactic radiotherapy. *Int J Radiat Oncol Biol Phys*, 28:1001-1008, 1994.
- 44) C. Johnson, S. Khandelwal, R. Schmidt-Ullrich, J. Ravalese, **D. E. Wazer**: The influence of quantitative tumor volume measurements on local control in advanced head and neck cancer using concomitant boost accelerated superfractionated irradiation. *Int J Radiat Oncol Biol Phys*, 32:635-641, 1995.
- 45) R. Schmidt-Ullrich, C. Johnson, S. Khandewal, **D. E. Wazer**: Concomitant boost accelerated superfractionated irradiation for the treatment of advanced carcinomas of the oral cavity and oropharynx. Recent Results in Cancer Res., Ganzer, Pape, Schmitt eds. 134:69-79, Berlin.

Springer Verlag, 1994.

- 46) **D. E. Wazer**, Q. Chu, X. Liu, Q. Gao, H. Safaii, V. Band: Loss of p53 protein during radiation-transformation of primary human mammary epithelial cells. *Molec Cell Biol*, 14:2468-2478, 1994.
- 47) X. Liu, H. Band, Q. Gao, **D. E. Wazer**, Q. Chu, V. Band: Tumor cell-specific loss of p53 protein in a model of multi-step breast tumorigenesis. *Carcinogenesis*, 15:1969-1973, 1994.
- 48) **D.E. Wazer**, I. Gage, S. Krosnick, M. Homer, C. Schmid: Age-related differences in patients with non-palpable breast carcinomas. *Cancer* 78:1432-1437, 1996.
- 49) **D. E. Wazer**, J. Erban, N. Robert, T. Smith, D. Marchant, T. DiPetrillo, R. Schmidt-Ullrich: Breast conservation for clinically node negative cancer without axillary dissection in elderly women. *Cancer*, **74**:878-883, 1994.
- 50) **D. E. Wazer**, X. Liu, Q. Chu, Q. Gao, V. Band. Immortalization of distinct human mammary epithelial cell types by human papilloma virus-16 E6 or E7. *Proc Natl Acad Sci USA* 92:3687-3691, 1995.
- 51) O. K. Harling, R. Zamenhof, G. Solares, J Yanch, **D. E. Wazer**, R. Rogus, J. Chabeuf, S. Yam, J. Bernard, G. Cano, T, DiPetrillo, H. Madoc-Jones. Preparations for phase I clinical trials of Boron Neutron Capture Therapy at the MIT reactor and New England Medical Center. *Rad Oncol Invest* 2:109-118, 1994.
- 52) R. Schmidt-Ullrich, **D. E. Wazer**, O. Tercilla, H. Safaii, D. Marchant, T. Smith, N. Robert, M. Homer. Tumor margin assesement as a guide to optimal conservation surgery and irradiation in early stage breast carcinoma: A Year Book Quarterly (C.M. Balch ed.) Mosby Year Book, Chicago, Ill., 1990.
- 53) R. Schmidt-Ullrich, **D. E. Wazer**, D. Marchant, T. Smith, H. Safaii, N. Robert. Breast conserving therapy with out-standing 10-year locoregional control rates. A case for aggressive treatment to the tumor-bearing quadrant. in Year Book of Obstetrics and Gynecology; Mosby-Year Book. 1995.
- 54) **D. E. Wazer**, R. Schmidt-Ullrich, C. Schmid, H. Safaii. The value of breast lumpectomy margin assessment as a predictor of residual tumor burden. *Int J Radiat Oncol Biol Phys* 38:291-299, 1997.
- 55) **D. E. Wazer**, P. Mckeough, H. Madoc-Jones. Splenic Irradiation for patients with Polycythemia Vera. *Rad Oncol Invest*. 3:167-171, 1995.
- 56) H. Madoc-Jones, R. Zamenhof, G. Solares, O. Harling, C. Yam, K. Riley, **D. Wazer**, G. Rogers, M. Atkins. A Phase I dose-escalation trial of Boron Neutron Capture Therapy for subjects with metastatic subcutaneous melanoma of the extremities. Proceedings of the Fifth International Meeting on Progress in Radio-Oncology, Salzberg, Vienna, May 10-14, 1995, Plenum Publishing.

- 57) Q. Gao, S. Hauser, X.L. Liu, **D. E. Wazer**, H. Madoc-Jones, V. Band. Mutant p53-induced immortalization of primary human mammary epithelial cells. *Cancer Res.* 56:3129-3133, 1996.
- 58) X. Liu, **D. E. Wazer**, V. Band. Identification of a novel protease-like gene whose expression is down-regulated during breast cancer progression. *Cancer Res.* 56:3371-3379, 1996.
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- 6) **D. E. Wazer**. Eat less, exercise more - don't have cancer. *The Middlesex News* (op/ed page), January 3, 1997.
- 7) J. M. Kirkwood, **D. E. Wazer**, M. Rosenstein. Interferon adjuvant therapy of melanoma. *Cancer* 79:1843-1845, 1997.
- 8.) K. Miller, D. Schenkein, G. Jabro, Y. Koc, T. Boyle, J. Ravalese, **D. E. Wazer**. Response to Gratwohl et al: Role of splenic irradiation in patients with chronic myelogenous leukemia undergoing allogeneic bone marrow transplant. *Biology of Blood and Marrow transplantation* 6:213, 2000.
- 9.) **D. E. Wazer**. Commentary on, "Mammographically detected ductal carcinoma in situ of the breast treated with breast conserving surgery and definitive breast irradiation". *Breast Diseases: A Year Book Quarterly*, in press.
- 10.) F. A. Vicini, D. W. Arthur, **D. E. Wazer**. Inconsistency, perspective, double talk, and false virtue. *Brachytherapy* 1:181-183; 2002.
- 11.) **D. E. Wazer**. A remembrance of Rupert K. A. Schmidt-Ullrich. *Int J Radiat Oncol Biol Phys*, 62:1-2; 2005.
- 12.) **D. E. Wazer**. The American Journal of Clinical Oncology and the American College of Radiation Oncology: A partnership for the future. *Am J Clin Oncol* 29:1-2; 2006
- 13.) **D.E. Wazer**. Early results of a registry trial with MammoSite for partial breast irradiation. *Women's Oncology Review*, in press.

ACADEMIC THESES

- 1) Honors Thesis (Holy Cross College) - Sulfate and Ammonium Levels in Suspended Particulates in the Local Atmosphere of Worcester, Mass. (Defended May 14, 1978).
- 2) Honors Thesis (NYU School of Medicine) - Metoclopramide: A Dopamine Antagonist in Search of a Receptor (Defended April 11, 1982).

PROTOCOLS

- 1) **D. Wazer**, M.Chun, and L. Hunt; Accelerated Hyperfractionated Radiotherapy for the Treatment of Locoregional Recurrence of Breast Carcinoma: A Pilot Trial.

- 2) C. Hillyer, K. Miller, **D. Wazer**, and E. Berkman; Autologous Bone Marrow Transplantation using Peripheral Stem Cell Harvest in Patients with Relapsed or Refractory Multiple Myeloma.
- 3) **D. Wazer** and J. Kelly; Total Lymphoid Irradiation for Chronic Progressive Demyelinating Polyneuropathy.
- 4) S. Saris and **D. Wazer**; Stereotactic Radiotherapy for Solitary Brain Metastases.
- 5) **D. Wazer** and R. Zamenhof; A Phase I Multi-institutional Study of p-boronophenylalanine for Melanoma, Glioblastoma Multiforme and Breast Carcinoma.
- 6) R. Graham, A. Hackford, M. Atkins, D. Karp, N. Robert, **D. Wazer**; Phase II trial of hepatic arterial infusion of 5-FU, FUDR, and alpha interferon for colorectal cancer metastatic to the liver.
- 7) **D. Wazer**, R. Zamenhof, O. Harling, G. Rogers, H. Madoc-Jones; A clinical trial of boron neutron capture therapy for cutaneous melanoma.
- 8) **D. E. Wazer**. Evaluation of the Clinical Efficacy, Safety and Reliability of the Peacock System for Conformal Radiation Therapy in the treatment of patients with cancer and arteriovenous malformations.
- 9) **D. E. Wazer** (ECOG Study Chair/Principal Investigator); E3697: A prospective randomized Phase III trial assessing the role of post-operative radiotherapy plus adjuvant interferon Alpha-2b in patients with cervical, axillary, or inguinal nodal metastasis from cutaneous melanoma. (activated 10/27/98).
- 10) **D.E. Wazer**, M. Ling, J. Wu. A Phase II trial of fractionated intensity-modulated conformal radiation therapy in the treatment of recurrent high grade glioma.
- 11) **D. E. Wazer**. A Phase II trial of neo-adjuvant chemotherapy followed by fractionated conformal intensity modulated radiotherapy for treatment of recurrent head and neck cancer.
- 12) **D.E. Wazer**. A phase II trial of fractionated intensity-modulated radiation therapy as a boost in the treatment of high grade glioma.
- 13) **D.E. Wazer**. A phase II trial of concentric conformal boost (CCCB) using intensity-modulated radiation therapy in the treatment of high grade glioma.
- 14) **D.E. Wazer**. High dose-rate interstitial brachytherapy without external beam irradiation for stage I and II breast carcinoma: A phase I/II trial.
- 15) **D.E. Wazer** and C. Puliafito. A phase I/II study of intensity modulated radiation therapy (IMRT) for the treatment of subfoveal choroidal neovascularization in age-related macular degeneration.

- 16) **D.E. Wazer.** Clinical evaluation of the relationship between normal epithelial cell-specific 1 (NES-1) serine protease loss and human cancer.

VISITING PROFESSORSHIPS

- 1) Massey Cancer Center, Medical College of Virginia, Virginia Commonwealth University, Richmond, Virginia, June 3-5, 1998.
- 2) Centro de Oncologia Radioterapica do RGS, Porto Allegre, Brazil, August 19-23, 1998.
- 3) Thomas Jefferson University, Jefferson Medical College, Philadelphia, Pennsylvania, March 21-22, 2000.
- 4) MD Anderson Cancer Center, University of Texas, Houston, Texas, February 12-14, 2002.
- 5) Guangzhou Medical College, Guangzhou, China, October 27-29, 2002.
- 6) Visiting Professor-in-residence, Department of Engineering Physics, Tsinghua University, Beijing, China, October 27-November 2, 2002.
- 7) Massachusetts General Hospital, Harvard Medical School, November 8, 2005

INVITED LECTURES

- 1) "Radiation Therapy for Cutaneous Tumors". Dermatology Grand Rounds, Boston University Medical Center, September 10, 1989.
- 2) "Cutaneous Changes with Radiation Therapy". Dermatology Grand Rounds, Boston University Medical Center, September 20, 1990.
- 3) "Growth Regulation and Radiosensitivity". Radiation Oncology Grand Rounds, Massachusetts General Hospital, August 7, 1991.
- 4) "A Multidisciplinary Approach to Breast Carcinoma" Grand Rounds, Johns Hopkins Oncology Center, December 12, 1991.
- 5) "Boron Neutron Capture Therapy", Grand rounds, Royal Marsden Hospital, London, England, August 29, 1992.
- 6) "Stereotactic Radiation Therapy at the New England Medical Center", Grand rounds, Massey Cancer Center, Medical College of Virginia, Richmond, September 15, 1992.
- 7) "Breast Conservation Therapy: Who Should Really Receive This Treatment", Symposium on Controversies in Breast Cancer at Fairfax Hospital, Fairfax, Virginia, October 20, 1992.
- 8) "Duct Carcinoma In Situ of the Breast", Grand Rounds, Women and Infants Hospital, Brown University Medical School, Providence, RI, October 28, 1992.

- 9) "Boron Neutron Capture Therapy", Radiation Oncology Rounds, Yale University Comprehensive Cancer Center, New Haven, CT, January 21, 1993.
- 10) "Growth Regulation, Breast Cancer and Radiosensitivity", Breast Evaluation Center Weekly Conference, Dana-Farber Cancer Center, Boston, MA, September 15, 1993.
- 11) "Breast Conservation Therapy", Medical College of Virginia Student Cancer Conference, Richmond, VA, February 16, 1994.
- 12) "Invasive Breast Cancer: The Role of Radiation Therapy in Loco-regional Management", The Breast Health Symposium, The Women and Infant's Hospital, Brown University, Providence, RI, October 29, 1994.
- 13) "Molecular Events in Radiation -induced Carcinogenesis of the Breast", Weekly Breast Cancer Conference, Massachusetts General Hospital, November 2, 1994.
- 14) "Intensity Modulated Radiation Therapy: A Novel Stereotactic Approach for the Brain and Beyond", Radiation Oncology Grand Rounds, Medical College of Virginia, Richmond, May 8, 1995.
- 15) "Approaches to Breast Conserving Irradiation at the New England Medical Center", Visiting Professor, Dartmouth/Hitchcock Clinic, Hanover, NH, June 27, 1995.
- 16) "New Directions in Stereotactic and Conformal Radiation Therapy", Oncology Grand Rounds, Cape Cod Regional Cancer Center, Hyannis, MA, January 25, 1996.
- 17) Monthly "Guest Consultant" at the Cape Cod Regional Cancer Center Tumor Board. 1996-
- 18) "Treatment for DCIS: How much is enough". Oncology Grand Rounds, Baystate Medical Center, Springfield, MA, May 9, 1996.
- 19) "Approaches to Clinical Applications of Intensity Modulated Radiation Therapy for Malignant Tumors of the CNS", First International Workshop on Intensity Modulated Radiation Therapy, Durango, Colorado, May 17-19, 1996.
- 20) "Radiotherapy for ARMD". New England Eye Center Annual Retina Update, Boston, MA, June 14, 1997.
- 21) "Anatomic and molecular considerations for radiotherapy in the management of early stage breast carcinoma", Brown University/Rhode Island Hospital Surgical Grand Rounds, Providence, RI, August 13, 1997.
- 22) "Current Issues in Radiation Therapy for Early Breast Cancer" Symposium on Cancer Management, Vail, Colorado, February 3, 1998.
- 23) "Computer-assisted Radiation Therapy", Grand Rounds, Spaulding Hospital, Boston,

Massachusetts, February 20, 1998.

- 24) "Molecular and Anatomic Considerations in the Pathogenesis of Breast Cancer", Gilbert Fletcher Society, MD Anderson Cancer Center, Houston, Texas, April 3, 1998.
- 25) Visiting Professor, Massey Cancer Center, Medical College of Virginia, Virginia Commonwealth University, Richmond, Virginia, June 3-5, 1998.
- 26) "Anatomic considerations in the management of early breast cancer", Grand Rounds, Centro de Oncologia Radioterapica do RGS, Porto Allegre, Brazil, August 20, 1998.
- 27) "The management of early breast cancer", Congress of the International Union Against Cancer (UICC), Simultaneous Worldwide Satellite Transmission Symposium, Rio de Janiero, Brazil, August 24, 1998.
- 28) "Adjuvant Radiation Therapy for Melanoma", Symposium on Advances in the Biology and Treatment of Melanoma, Harvard Medical School, November 6, 1998.
- 29) "Controversies in Radiation Therapy for Early Breast Cancer", Program in Women's Oncology, Grand Rounds, Women & Infants Hospital, Providence, RI, December 16, 1998.
- 30) Visiting Professor, Thomas Jefferson University, Jefferson Medical College, Philadelphia, PA, March 21-22, 2000.
- 31) "DCIS patient selection: Who should be treated with radiotherapy", American College of Surgeons Breast Cancer Course, Annual Meeting of the American College of Surgeons, Chicago, IL, October 24, 2000.
- 32) "Molecular and anatomic considerations in the pathogenesis and treatment of early breast cancer", Grand Rounds, Davenport-Mugar Cancer Center, Cape Cod Hospital, Hyannis, MA, March 29, 2001.
- 33) "Radiation Oncology in the New Millenium", Department of Medicine Grand Rounds, Saint Elizabeth Medical Center, Boston, MA, April 5, 2001.
- 34) "Sequential intensity modulated radiation therapy with daily computer-assisted BAT ultrasound localization for early stage prostate cancer: The Tufts/Brown experience". The Sixth International Symposium for Conformal and Intensity Modulated Radiation Therapy, Williamsburg, VA, June 28, 2001.
- 35) "The pathologic anatomy of early breast cancer: Implications for the radiation oncologist". Radiation Oncology Noon Conference, The University of Texas M. D. Anderson Cancer Center, Houston, Texas, February 13, 2002.
- 36) "Anatomic and molecular considerations in the pathogenesis of breast cancer". Grand Rounds, The University of Texas M. D. Anderson Cancer Center, Houston, Texas, February 13, 2002.

- 37) "HDR interstitial brachytherapy alone for early-stage breast cancer: Preliminary results". Invited Plenary Speaker, New England Chapter of the AAPM Annual Meeting, Lexington, MA, May 17, 2002.
- 38) "A combined analysis of the Tufts/Brown and Virginia Commonwealth University experience with HDR interstitial brachytherapy for early breast cancer", Invited Speaker, 23rd Annual Meeting of the American Brachytherapy Society, Orlando, FL, May 21-23, 2002.
- 39) "A combined analysis of the Tufts/Brown and Virginia Commonwealth University experience with HDR interstitial brachytherapy for early breast cancer", Invited Speaker, 11th International Brachytherapy Conference, Santa Fe, NM, June 19-22, 2002.
- 40) "Radiation Oncology in the New Millenium: Getting More for Less", Grand Rounds, Newport Hospital, Newport, RI, June 7, 2002.
- 41) "Accelerated Partial Breast Irradiation", Grand Rounds, Davenport-Mugar Cancer Center, Cape Cod Hospital, Hyannis, MA, July 15, 2002.
- 42) "Women and Cancer", National Institutes of Health/Rhode Island Public Health Forum on Women's Health, Brown University, Providence, RI, July 20, 2002.
- 43) "Accelerated Partial Breast Irradiation: Observations on Toxicity". The Annual Meeting of the American Brachytherapy Society, New York, New York. May 8-10, 2003.
- 44) "Intensity Modulated Radiation Therapy". Grand Rounds, The combined Tufts/BU Otolaryngology Program, Boston, MA, June 4, 2003.
- 45) "Accelerated Partial Breast Irradiation". Plenary Speaker. The Annual Meeting of the American Association of Medical Dosimetrists, Providence, RI, July 3, 2003.
- 46) "Partial Breast Irradiation". The Second Annual "Future of Breast Cancer Congress", Banff, Alberta, Canada. August 2, 2003.
- 47) "Accelerated Partial Breast Irradiation". The Cape Cod Breast Cancer Symposium/National Academy of Sciences, Woods Hole, MA. September 27, 2003.
- 48) "Whole breast irradiation, partial breast irradiation, or brachytherapy after breast conserving surgery". 9th Annual Perspectives in Breast Cancer, Boston, MA October 11, 2003.
- 49) "Dose-volume constraints for partial breast irradiation". Joint meeting of ESTRO-GLEC-ABS, Barcelona, Spain May 13, 2004.
- 50) "Partial Breast Irradiation: Rationale and Results". Harvard Medical School Brachytherapy Course, Boston, MA, September 16, 2005.
- 51) "Partial Breast Irradiation: The Promise and the Peril". Grand Rounds, Gillette Breast Center, Massachusetts General Hospital, Boston, MA. November 8, 2005.

52) "Current methods for delivering Accelerated partial breast irradiation: Advantages and limitations". Xoift Symposium at the annual meeting of the American College of Radiation Oncology, Orlando, Florida, February 23, 2006.

AWARDS

Recipient of the 1992 ASTRO travel award to the European Society of Therapeutic Radiology and Oncology meeting in Malmo, Sweden.

"The Best Doctors in America: 1996-1997" (Radiation Oncology), Woodward and White.

Boston Magazine (February, 1997), "The Best Doctors".

Good Housekeeping Magazine, March 1999, "Top Cancer Doctors for Women".

Oliver Smith Award of New England Medical Center for excellence, compassion and service. October, 1999.

"America's Top Doctors", Castle Connolly Ltd, 2001.

Redbook Magazine, October, 2001, "Top Breast Cancer Doctors in America"

Ladies' Home Journal, April, 2002, "America's Top Doctors for Women"

"Best Doctors in America", Best Doctors, Inc, June 2002.

"America's Top Doctors", Castle Connolly, Ltd, 2003.

"Top Doctors", Consumers Checkbook Guide to Top Doctors, 2003.

"Best Doctors in America 2003-2004", Best Doctors, Inc, January, 2004.

"America's Top Doctors", Castle Connolly, Ltd, 2004.

"America's Top Doctors", Castle Connolly, Ltd, 2005.

Honorary Degrees. Arts and Humanities. Athletics. Recent recipients are listed here with notable figures granted honorary degrees throughout Harvard's long history. Year. Recipient. Degree. 2019. Lonnie G. Bunch III, Ingrid Daubechies, Drew Faust, William Chester Jordan, Angela Merkel, David Jay Remnick, Emmanuel Saez, Marilyn Strathern, Wu Hung. Honorary Degrees. The University of Kansas awards honorary degrees as an exceptional honor to individuals of notable intellectual, scholarly, professional or creative achievement, or service to humanity, to be awarded an honorary degree from the University of Kansas. An honorary degree is the highest honor bestowed by the university and as such is a reflection of the University of Kansas's mission, aspirations and values. Billy Mills, Elizabeth Broun, and Teruhisa Ueda " May 2019. Richard Weinshilboum - 2018. Honorary graduates don't have to be famous or well-known, in fact over the years, The Open University has conferred honorary degrees on people from all walks of life, many of whom continue to support the University in a variety of ways. Please see the full listing of all the Honorary Degrees awarded by The Open University up to the end of 2019. Here are a few examples of ways our honorary graduates have recently been involved with the University, long after their ceremony.