

## CURRICULUM VITAE

**NAME:** Bharat B. Mittal, M.D., F.A.C.R.

**DATE OF BIRTH:** [-----]

**UNDERGRADUATE WORK:** Meerut University  
India  
Degree: B.S., [----]

Christian Medical College  
Ludhiana, India  
Degree: M.B.B.S., [---]  
(equivalent to M.D. in U.S.A.)

**INTERNSHIP:** Christian Medical College and Hospital  
Ludhiana, India  
Flexible internship in Ophthalmology, E.N.T.,  
Anesthesia, Neurosurgery, Dermatology,  
Internal Medicine, Community Health  
[-----]

**RESIDENCY:** Christian Medical College and Hospital  
Ludhiana, India  
Internal Medicine  
[-----]

Northwestern University  
Chicago, Illinois  
Radiation Oncology  
[-----]

Mallinckrodt Institute of Radiology  
Washington University School of Medicine  
St. Louis, Missouri  
Fellow, Radiation Oncology  
[-----]

**LICENSURE:** [---] Illinois [-----]  
[---] Missouri [----]  
[---] Pennsylvania [-----]  
[---] Florida [----]

**CERTIFICATION:** American Board of Radiology  
[-----]

**ACADEMIC APPOINTMENTS:**

Instructor of Radiation Oncology  
Mallinckrodt Institute of Radiology,

Washington University  
St. Louis, Missouri  
1981-1982

Assistant Professor of Radiology,  
University of Pittsburgh  
Pittsburgh, Pennsylvania  
1982-1985

Clinical Assistant Professor of Radiology  
Northwestern University  
Chicago, Illinois  
1985-August, 1989

Associate Professor of Clinical Radiology  
Northwestern University  
Chicago, Illinois  
September, 1989 - October, 1995

Professor of Clinical Radiology  
Northwestern University  
Chicago, Illinois  
September 1, 1995 - Present

**HOSPITAL APPOINTMENTS:**

Attending Physician in Radiation Oncology  
Barnes Hospital  
St. Louis, MO  
1981 - 1982

Attending Physician in Radiation Oncology  
Presbyterian University Hospital  
Pittsburgh, PA  
1982 - 1985

Consultant, Therapeutic Radiology  
Veterans Administration Hospital  
(Oakland) Pittsburgh, Pennsylvania  
1982 - 1985

Consultant, Therapeutic Radiology  
Oak Park Hospital  
Oak Park, Illinois  
1985 - 1996

Consultant, Radiation Oncology Technology  
School, Loyola University/V.A. Hines  
Chicago, Illinois

1985-1988

Associate Attending, Radiology  
Northwestern Memorial Hospital  
Chicago, Illinois  
September, 1988-Present

**PAST AND PRESENT MEMBER  
IN MEDICAL SOCIETIES:**

American Society of Therapeutic Radiologists  
American College of Radiology  
American Medical Association  
Pennsylvania Medical Society  
Alleghany County Medical Society  
Pittsburgh Roentgen Society  
Chicago Medical Society  
Illinois State Medical Society  
American Society of Clinical Oncology  
American Endocurietherapy Society  
American Roentgen Ray Society

**COMMITTEE MEMBERSHIPS:**

Radiation Therapy Oncology Group (RTOG):

New Investigators Committee, 1983-1987  
Gastrointestinal Committee, 1983-1987  
Genitourinary Committee, 1983-1987  
Head and Neck Committee, 1985-1987  
Hyperthermia, January, 1989-1991  
Principal Investigator, R.T.O.G Trials.  
Northwestern Memorial Hospital, July 1990-1997

Eastern Cooperative Oncology Group (ECOG):

Radiotherapy Steering Committee, 1983-1987

Illinois Cancer Council:

Member, Head and Neck Committee, 1987-1992  
Member, Radiation Oncology Committee, 1987-1992

Departmental Committee:

Radiology: Quality Assurance 1993- 1994  
Cancer Center: Clinical Science Seminars Committee,  
1985-1987  
Protocol Committee, 1986-1987  
Cooperative Oncology Group,  
Executive Committee (1989-1991)  
Cancer Program Adhoc Committee,  
1988-1989  
Internal Advisory Board, 1991-1992  
Executive Committee, 1994-1996

Radiology (Radiation Oncology):

Chairman, Quality Assurance 1993-1995

Radiology

Appointment, Promotions and  
Tenure Committee 2001 -

Medical School Committee:

Medical School Admission Interview Team, 1988-1990

Northwestern University Committee:

Institutional Review Board, 1985-1989  
Radiation Safety Committee, 1986-1989  
Exemption from Human Subjects Review, 1991-1997

Northwestern Memorial Hospital Committee:

Cancer Committee, 1986-2000  
Research Committee, 1991- 2000

National Cancer Care Network:

Member, Small Cell Cancer Guideline Panel  
Member, Head and Neck Cancer Guideline Panel  
Member, Skin Cancer Guideline Panel

VA Integration Committee:

Chairman Radiation Oncology Committee to integrate  
VA Lakeside and VA West Side 1997

**TEACHING EXPERIENCE:**

Teaching and Supervision of Radiation Oncology  
Residents. Mallinckrodt Institute of Radiology, 1981-  
1982

Teaching and Supervision of Radiation Oncology  
Residents. Univ. of Pittsburgh, 1982-1985

Teaching and Supervision of Radiation Oncology  
Residents, Medical Oncology fellows and Medical  
Students for elective rotations in Radiation Oncology at  
Northwestern Memorial Hospital/Northwestern  
University School of Medicine, 1985 to Present

**REVIEWER:**

Reviewed articles from following journals;

1. Chest
2. Int. J. Radiation Oncol, Biol, and Physics
3. Book Reviewer for Doody's Health Science  
Book Review Journal
4. American Journal of Roentgenology
5. Journal of American Medical Association
6. Cancer

**EDITORIAL BOARD:**

1. The Journal: The Robert H. Lurie cancer Center of  
Northwestern University. 1993
2. Phonoscope

**HONORS AND AWARDS:**

State Merit Scholarship  
[-----]

**ADMINISTRATION:**

Acting Chief and Medical Director,  
Radiation Oncology, Northwestern Memorial  
Hospital/Northwestern University,  
May 1, 1991-Feb., 1993

Chief and Medical Director Radiation Oncology  
Northwestern Memorial Hospital/  
Northwestern University Medical School  
November 1, 1993 - Present

**NORTHWESTERN  
HEALTH CARE  
NETWORK**

Member Oncology Task Force Leadership Group,  
1994 - 1995

**RESEARCH GRANTS:**

1. Title: Intraoperative Radiation of Canine Carotid Arteries, Internal  
Jugular Vein and Vagus Nerve.  
P.I.: Bharat B. Mittal  
Amount: \$4880.00  
Grant Source: RR-05370, U.S. Public Health Service, NIH - Thru Cancer Center  
Status: Dec. 1, 1986 to Nov. 31, 1987 (Completed)

2. Funding Source: [-----]  
Title: Adaptive Phased Array for Deep Hyperthermia  
PI/PD: [-----]  
Co-P.I.: Bharat B. Mittal, M.D.  
Percent effort: [--]  
Amount: [-----]  
Status: 5/01/97 to 4/30/98

3. Title: Effect of Combined Hyperthermia and <sup>131</sup>I-Labeled Anti-CEA  
Monoclonal Antibody on Human Xenografts in Nude Mice: A  
Pilot Project.  
P.I.: Bharat B. Mittal  
Percent effort: [--]  
Amount: [-----]  
Grant Source: [-----]  
Status: July 1, 1989 to January, 1991 (completed)

4. Title: Phase Steered Absorbed Power Optimization for Deep  
Hyperthermia  
P.I.: [-----] B.B. Mittal (Co-P.I.)  
Percent effort: [--]

Amount: [-----]  
Grant Source: [-----]  
Status: July 1, 1990 to June 31, 1991

5. Title: Phase I/II Trial of Combined Hyperthermia and RMOAB's  
in patients with liver metastases from colorectal carcinoma  
P.I.: Bharat B. Mittal  
Percent effort: [---]  
Amount: [-----]  
Grant Source: [-----]  
Status: April, 1992 to December, 1994

6. Title: 3-D Steerable Hyperthermia Planning and Treatment System  
P.I.: Turner, Paul F. (BSD Medical Corporation, Salt Lake City, Utah)  
Co-P.I (NU): Bharat B. Mittal, M.D.  
Percent effort: 5%  
Amount: \$325,000 First year approved  
Grant Source: SBIR Phase II Development Grant, NCI/NIH  
Status: 9/1/95 to 9/30/97  
Grant #: 2R44CA61515-0Z

7. Title: Cancer Control Science Program in Head and Neck Cancer Rehabilitation  
P.I.: Jerilyn A. Logemann, Ph.D.  
C0-P.I.: This Program Project has a total of 6 projects. Bharat B. Mittal is the PI for  
Project entitled Effects of Radiotherapy +/- Chemotherapy on Voice, Speech and  
Swallowing (Project #2).  
Percent effort: 12.5%  
Direct Cost: (Total Project) \$6,245,341.00  
(Total Direct and Indirect Cost: \$8,530,174.00)  
( Project #2) \$864,496.00  
Grant Source: NIH/NCI  
Grant Status: 5-1-96 to 3-31-2002  
Grant #: P01CA40007

**PROFESSIONAL PUBLIC SERVICE:**

MART: Metropolitan Assoc.of Radiation Oncology  
Scientific Program Chairman 1987-1989  
President 1988-1989  
ACGME Site Visitor:  
University of Southern California  
Program. June 1-2, 1989  
LDS Hospital, Salt Lake City, Utah.  
September, 1992  
Henry Ford Hospital, Detroit  
August 24-25, 1994  
Chief Proctor Illinois: American Board of  
Radiology 1994 - 1999  
ABR: Clinical Radiation Oncology Task Force  
Head and Neck Cancer 1996 - 2000

ABR: Oral Examiner

Radiation Oncology 1997

AAPI: Local CME Chairman, 1995

IMA: CME Chairman, 1998

CARROS: Council of Affiliated Regional Radiation  
Oncology Society

Treasurer 2001-2002

Secretary 2002-2003

President Elect 2003-2004

President 2004-2005

ASTRO: American Society of Therapeutic  
Radiation Oncology

- Annual Meeting Program Advisory  
Group Yr. 2001

- Member Government Relations  
Committee (2004 -

- Member FDA SubCommittee (2004

- Member NCI SubCommittee (2004

- Member IHE-RO (Integrated Health  
Care Enterprise-Radiation Oncology)  
2004

- Member Radiation Therapeutics &  
Biology Task Force (RTB) – 2005

- Member Quality Measures Task Force  
2005 -

**DIRECTORY LISTINGS**

1. The Best Doctors in America 1994-1995, 1998  
Woodward/White Publishers
2. Who's Who in North America 1995
3. The Best Doctors in America: 1996-1997  
Midwest Region
4. The Best Doctors in Chicago: 1996
5. Who's Who
6. Life Member of the National 2001 edition  
Registry of Who's Who (#181217)
7. Top Doctors in Chicago Metro Area 2001, 2002
8. National Registry of Who's Who 2002

**PUBLICATIONS:**

**A. REFEREED JOURNALS:**

1. Mittal, B.B., Oyasu, R., Brand, W.N. Sequential Bilateral Germ Cell Testicular Tumors of Different Cell Types. Cancer Vol. 48, No. 2:367-369, 1981.
2. Mittal, B.B., Oyasu, R., Brand, W.N. Pure Seminoma. International Journal of Radiation Oncology Biology and Physics Vol. 7:649-651, 1981.
3. Mittal, B.B. Letter to the Editor: Treatment of SVC Syndrome. New England Journal of Medicine Vol. 302, No. 1:61, Jan. 3, 1980.
4. Mittal, B.B., Rao, D.V., Marks, J.E., Ogura, J. Comparative Cost Analysis of Hemilaryngectomy and Irradiation for Early Glottic Cancer. International Journal of Radiation Oncology Biology and Physics Vol. 9:407-408, 1983.
5. Mittal, B.B., Rao, D.V., Marks, J.E., Perez, C.A. Role of Radiation in the Management of Early Vocal Cord Carcinoma. International Journal of Radiation Oncology Biology and Physics Vol. 9:997-1002, 1983.
6. Mittal, B.B., Marks, J.E., Ogura, J. Transglottic Carcinoma. Review of 152 patients. Cancer 53:151-161, 1984.
7. Mittal, B.B., Wasserman, T.H., Griffith, R.C. Non-Hodgkin's Lymphoma of the Stomach. The American Journal of Gastroenterology Vol. 78, No. 12:780-787, 1983.
8. Mittal, B.B., Matuschak, G., Culpepper, J. Endobronchial Interstitial Brachytherapy using a Bronchofiberscope with a flexible injector system. Radiology 152:219-220, 1984.
9. Mittal, B.B., Emami, B., Sapareto, S., Taylor, F.H., Abrath, F.G. Effects of Sequencing of the Total Course of Combined Hyperthermia and Radiation on RIF-1 Murine Tumor. Cancer 54:2889-2897, 1984.
10. Emami, B., Mittal, B.B., Sapareto, S.A. Sequencing of the Total Course of Hyperthermia and Irradiation. Cancer Research (suppl) 44:4731s-4732s, October 1984.
11. Mittal, B.B., Deutsch, M., Iwatsuki, S. Primary Cancers of Extrahepatic Biliary Passages. International Journal of Radiation Oncology Biology and Physics 11:849-854, 1985.
12. Mittal, B.B., Study of Penile Circulation Before and After Radiation in Patients with Prostate Cancer and its Effect on Impotence. International Journal of Radiation Oncology Biology and Physics 11:1121-1125, 1985.
13. Mittal, B.B., Parson, J., Webster, J., Deutsch, M. Transbronchial Radioactive Implantation Using a Flexible Injector System. An Improved Technique for Endobronchial Brachytherapy. Radiotherapy and Oncology 5:11-13, 1986.
14. Mittal, B.B., Deutsch, M., Kennerdell, J. Johnson, B. Paraocular lymphoid tumors. Radiology 159:793-796, 1986.
15. Mittal, B.B., Deutsch, M., Thompson, M., Dameshek, H.L. Accelerated coronary arteriosclerosis. The American Journal of Medicine 81:183-184, 1986.



16. Mittal, B.B., Nalesnik, M. Composite lymphoma (Hodgkin's and Non-Hodgkin's) of the spleen in a previously untreated patient. ACTA Hematologica 76:26-32, 1986.
17. Deutsch, M., Parsons, J.A., Mittal, B.B. Radiation therapy for local-regional breast carcinoma. International Journal of Radiation Oncology Biology and Physics 12:2061-2065, 1986.
18. Mittal, B.B., Chamovitz, R., Klein, E. A failed attempt to implant radioactive Au-198 seeds in canine gastric and colonic mucosa using flexible fibroptic endoscopes and a flexible injector system. International Journal of Radiation Oncology Biology and Physics 13:146, 1987.
19. Mittal, B.B. Cost comparison of various treatment methods for early prostate cancer. International Journal of Radiation Oncology Biology and Physics Vol. 13, No. 10:1603, 1987.
20. Bobba, V.S., Mittal, B.B., Hoover, S.V., Kepka, A. Classical and anaplastic seminoma: A difference in survival. Radiology 167:849-852, 1988.
21. Sider, L., Mittal, B.B., Nemcek, A.A., Bobba, V.S. Computerized tomographic guided placement of I-125 seeds for unresected carcinoma of the lung. J. of Computed Assist. Tomography 12(3):515-517, 1988.
22. Mittal, B.B., Spies, W.G., Markwell, R., Brand, W.N., Spies, S.M. A new radioisotope technique of splenic localization for radiation treatment. International Journal of Radiation Oncology Biology and Physics 15:221-222, 1988.
23. Kies, M.S., Mittal, B.B., Gordon, L.I., Pelzer, H.J., Gurley, M., Chmiel, J.S., Wallemark, C.B., Yuska, C.M., Sisson, G.A., Sr. Analysis of patients achieving complete response to induction (neoadjuvant) chemotherapy for squamous cell cancer of the head and neck. Proceedings of Second International Head and Neck Research Conference. In Head and Neck Oncology Research. Editors, Wolf, G.T. and Carey, T.E. Kugler Publications, Berkeley, California, 1988, 275-286.
24. Shevlin, B., Mittal, B.B., Brand, W.N., Shetty, R.M. The role of adjuvant irradiation following primary prostatectomy, Based on histopathologic extent of tumor. International Journal of Radiation Oncology Biology and Physics Vol. 6, No. 6, 1425-1430, 1989.
25. Taylor, S.G., Murthy, A.K., Caldarelli, D.D., Showel, J.L., Kiel, K., Griem, K.L., Mittal, B.B., Kies, M., Hutchinson, J., Hollinger, L.D., Campanella, R., Witt, T.R., Hoover, S.V. Combined simultaneous cis-Platinum/5 FU infusion chemotherapy and split course radiation in head and neck cancer. Journal of Clinical Oncology 7:846-856, 1989.
26. Mittal, B.B., Sathiaseelan, V., Kies, M.D. Simultaneous localized 915 MHZ External and Interstitial Microwave Hyperthermia to heat tumors greater than 3 cm. in depth. International Journal of Radiation Oncology Biology and Physics 19:669-675, 1990.
27. Mittal, B.B., Pelzer, H., Tsao, C.H., Ward, W.F., et al. Intraoperative radiation of canine carotid artery, internal jugular vein and vagus nerve: Therapeutic applications in the management of advanced head and neck cancers. Archives of Otolaryngology -Head and Neck Surgery 116:1425-1430, December, 1990.

28. Mittal, B.B., Sathiaseelan, V., Rademaker, A.W., Pierce, M.C., Johnson, P.M., Brand, W.N.: Feasibility Studies of an ingestible telemetric temperature sensor for deep hyperthermia applications. Int. J. Radiation Oncology Biology and Physics Vol. 21, No. 5:1353-1361, 1991.
29. Picket-May, M.J., Taflove, A., Line, W.C., Katz, D.S., Sathiaseelan, V., Mittal, B.B.: Initial Results for Automated Computational Modeling of Patient-specific Electromagnetic Hyperthermia. IEEE Transactions on Biomedical Engineering Vol. 39, No. 3. 226-236, 1992.
30. Small, W., Mittal, B.B., Brand, W.N., et al.: Results of Radiation Therapy in early Glottic Carcinoma: Multivariate Analysis of Prognostic and Radiation Therapy Variables. Radiology 183: 789-794, 1992.
31. Keleti, D., Flickinger, J.C., Hobson, S.R., Mittal, B.B.: Radiotherapy of Lymphoproliferative Diseases of the Orbit. Am. J. Clin. Oncol. (CCT) 15 (5): 442-427, 1992.
32. Mittal, B.B., Zimmer, A.M., Sathiaseelan, V., Rosen, S.T., Redosevich, J.A., Rademaker, A.W., Saini, A., Pierce, M.C., Weber, D.I., and Spies, S.M.: Effects of Hyperthermia and Iodine 131 labeled Anticarcinoembryonic Antigen Monoclonal Antibody on Human Tumor Xenografts in Nude Mice. Cancer 70, 2785-2791, 1992.
33. Mittal, B.B., Zimmer, A. M., Sathiaseelan, V., Saini, A., Rosen, S. T., Rademaker, A. W., et al.: Effect of Hyperthermia Timing on the Uptake of Iodine-131 Anti-CEA Monoclonal Antibody on Human Xenografts in Nude Mice. Endocurietherapy/ Hyperthermia Oncology an International Journal Vol 8, No. 4, 217-223, 1992.
34. Sathiaseelan, V., Taflove, A., Picket-May, M. J., Reuter, C., Mittal, B.B.: Application of numerical modeling techniques in electromagnetic hyperthermia Applied Computational Electromagnetics Society Journal 7: 61- 71, 1992.
35. Mittal, B.B., Nemcek, A. A., Sider, Lee.: Malignant tumors invading chest wall: Treatment with CT- directed Implantation of Radioactive Seeds. Radiology 186; 901-903, 1992
36. Small, W. Mittal, B.B., Brand, W. N., Shetty, R.M., Rademaker, A.W., and Beck, G.: Role of Radiation Therapy in the management of Carcinoma In Situ of the Larynx. Laryngoscope 103: 663-667, 1993.
37. Saini, A., Mittal, B.B., Sathiaseelan, V., Pierce, M. C.: Hypotension induced by hyperthermia treatment to the neck. Endocurietherapy/ Hyperthermia Oncology an International Journal Vol 10, No. 1, 49-56, 1994.
38. Taylor, S.G., Murthy, A.K., Vannetzel, J.M., Colin, P., Dray, M., Caldarelli, D.D., Shott, S., Vokes, E., Showel, J.L., Hutchinson, J.C., Witt, T.R., Griem, K.L., Hartsell, W.F., Kies, M., Mittal, B.B., Rebuschung, J.L., Coupey, D.J. et al.: Randomized comparison of neoadjuvant Cisplatin and Fluorocil infusion followed by radiation versus concomitant treatment in advanced head and neck cancer. Journal of Clinical Oncology Vol 12, No. 2, 385-395, 1994.
39. Lazarus, C.L., Logemann, J.A., Kahrilas, P.J., Mittal, B.B.: Swallow recovery in an oral cancer patient following surgery, radiotherapy and hyperthermia. Head and Neck 19:259-265, 1994.

40. Mittal, B.B., Sathiaselan, V., Shetty, R.M., Kiel, K.D., Pierce, M. C Adelman, W., and Marymont, M.H.: Regional Hyperthermia in patients with Advanced Malignant Tumors: Experience with the BSD 2000 annular Phased Array System and Sigma-60 Applicator. Endocurietherapy/ Hyperthermia Oncology an International Journal 10:223-236, 1994.
41. Vokes, E.E., Kies, M., Haraf, D. J., Mick, R., Moran, W.J., Kozloff, M., Mittal, B.B., Pelzer, H., Wenig, B., Panje, W., Weichselbaum, R.R.: Induction chemotherapy followed by concomitant chemoradiotherapy for advanced head and neck cancer: Impact on natural history of the disease. J. Clin. Oncol. 13:876-883, 1995.
42. LaCombe, M.A., Mittal, B.B., Colangelo, L.A., Rademaker, A.W., Brand, W.N., Kim, H., Gordon, L.I., Merrill, J.M.: Management of early stage Hodgkin's Lymphoma. The Radiation Oncology experience at NU/NMH. Am. J. Clin. Oncol (CCT) 19(3):235-240, 1996.
43. Vokes, E.E., Mick, R., Kies, M.S., Dolan, M.E., Malone, D., Athanasiadis, I., Haraf, D.J., Mittal, B.B., Kozloff, M., Weichselbaum, R.R., Ratain, M.J. Pharmacodynamics of fluorouracil-based induction chemotherapy in advanced head and neck cancer. J Clin Oncol 14:1663-1671, 1996.
44. Marymont, M.H., Geohas, J., Tomita, T., Strauss, L., Brand, W.N., Mittal, B.B.: Hyperfractionated Craniospinal Radiation in Medulloblastoma. Pediatric Neurosurgery 24: 178-184, 1996.
45. Lazarus, C.L.; Logemann, J.A., Pauloski, B.R., Colangelo, L.A., Kahrilas, P. J., Mittal, B.B., Pierce, M.: Swallowing Disorders in head and Neck Cancer Patients treated with Radiotherapy and adjuvant Chemotherapy. Laryngoscope Vol. 106, No. 9: 1157-1166, 1996.
46. Mittal, B.B., Zimmer, A.M., Sathiaselan, V., Benson, Al. B., Mittal, R.R., Dutta, S., Rosen, S.T., Spies, S.M., Mettler, J.M., Broch, M.W.: Phase I/II Trial of Combined I Anti-CEA Monoclonal Antibody and Hyperthermia in Patients with Advance Colorectal Adenocarcinoma. Cancer 94: 579-588, 1997.
47. Jagetia, R., Small, W., Jr., Stuart, F.P., Shetty, R., Stuart, J., Kanwar, Y.S., Mittal, B.B.: Local Graft Irradiation after Failure of Modern Immuno Suppression in Acute Cellular and Vascular Graft Rejection. Int. J. Radiation Oncology Biol. Physics 36: 907-911, 1996.
48. Athanasiadis, I., Taylor, Samuel Iv., Vokes, E.E., Pelzer, H.J., Rademaker, A., Mittal, B.B., Ganzenko, N., Blough, R., Lester, E.P., Kies, M.S.: Phase II Study of Induction and Adjuvant Chemotherapy for Squamous Cell Carcinoma of the Head and Neck: A Long Term Analysis for the Illinois Cancer Center. Cancer 94: 579-588, 1997.
49. Reuter, C.E., Taflove, A., Sathiaselan, V., Picket-May, M., Mittal, B.B.: Unexpected Physical Phenomenon Indicated by FDTD Modeling of the Sigma-60 Deep Hyperthermia Applicator. IEEE Transactions on Microwave Theory and Techniques. 46: 313-319, 1998.
50. Applegate, G.L., Mittal, B.B., Kletzel, M., Morgan, E., Johnson, P., Danner, K., Marymont, M.: Outpatient Total Body Irradiation Prior to Bone Marrow Transplantation in Pediatric Patients: A Feasibility Analysis. Bone Marrow Transplantation 21; 651-652, 1998.
51. Kies, M.S., Haraf, D.J., Athanasiadis, I., Kozloff, M., Mittal, B.B. Pelzer, H., Rademaker, A.W., Wenig, B., Weichselbaum, R.R., Vokes, E.E.: Induction Chemotherapy Followed by Concurrent

- Chemoradiation for Advanced Head and Neck Cancer: Improved Disease Control and Survival. *J. Clin. Oncol.* 16: 2715 – 2721, 1998.
52. Haraf, D.J., Kies, M., Rademaker, A.W., Stenson, K., Mittal, B.B., Pelzer, H., Wenig, B., Witt, M.E., Sulzen, L., Weichselbaum, R.R., Vokes, E.E.: Radiation Therapy with Concomitant Hydroxyurea and Fluorouracil in Stage II and III Head and Neck Cancer. *J. Clin. Oncol.* 17: 638-644, 1999.
  53. Kalapurakal, J.A.; Sathiaseelan, V.A.; Thomason, C.L.; Mittal, B.B.: Quality Assurance Autoradiography to verify Seed loading before prostate Implantation. *Journal of Brachytherapy International.* 15:205-209, 1999.
  54. Kalapurakal, J.A.; Raman, N.V.; John, K.; Sathiaseelan, V.; Thomsaon, C.; Mittal, B.B.: Correlation of Pre-Implant Computed Tomography Pubic arch Study with Post implant Dosimetry. *Journal of Brachytherapy International* 15:217-221, 1999.
  55. Vokes, E.E., Kies, M.S., Haraf, D.J., Stenson, K., List, M., Humerickhouse, R., Dolan, M.E., Pelzer, H., Sulzen, L., Witt, M.E., Hsieh, Y.C., Mittal, B.B., Weichselbaum, R.R.: Concomitant chemoradiotherapy as primary therapy for locoregionally advanced Head and Neck Cancer. *J. Clin Oncol.* 18: 1652-1661, 2000.
  56. Lingen, M.W., Chang, K., McMurray, S.J., Solt, D.B., Kies, M.S., Mittal, B.B., Haines, G.K., Pelzer, H.J.: Overexpression of P53 in squamous cell carcinoma of the tongue in young patients with no known risk factors is not associated with mutations in Exons 5-9. *Head & Neck.* 2000. 328-335.
  57. Lazarus, C.L., Logemann, J.A., Pauloski, B.R., Rademaker, A.W., Larson, C.R., Mittal, B.B., Pierce, Margaret.: Swallowing and Tongue Function following treatment for Oral and Oropharyngeal Cancer. *Jour. of Speech, Language and Hearing Research.* 43: 1011-1023, 2000.
  58. Logemann, J.A., Smith, C.H., Pauloski, B.R., Rademaker, A.W., Lazarus, C.L., Colangelo, M.S., Mittal, B.B., MacCracken, E., Goziano, J., Stachowiak, L., Newman, L.A.: Effects of Xerostomia on Perception and Performance of Swallow Function. *Head and Neck* 23:317-321, 2001.
  59. Mantz, C.A., Vokes, E.E., Kies, M.S., Mittal, B.B., Witt, M.E., List, M.A., Weichselbaum, R.R., Haraf, D.J.: Sequential induction chemotherapy and concomitant chemoradiotherapy in the management of locoregionally advanced laryngeal cancer. *Annals of Oncology* 12: 343-347, 2001.
  60. Mantz, C.A., Vokes, E.E., Stenson, K., Kies, M.S., Mittal, B.B., Witt, M.E., List, M.A., Weichselbaum, R.R., Haraf, D.J.: Induction chemotherapy followed by concomitant chemoradiotherapy in the treatment of locoregionally advanced Oropharyngeal Cancer. *Cancer J.* 7: 140-148, 2001.
  61. Kalapurakal, J.A., Mittal, B.B., Sathiaseelan, V.: Re-irradiation and external Hyperthermia in locally advanced, radiation recurrent, hormone refractory prostate cancer: a preliminary report. *The British J. of Radiology* 74: 745-751, 2001.
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- Pelzer, H., Portugal, L., Rademaker, A., Weichselbaum, R., Vokes, E.E. Concomitant infusional paclitaxel and fluorouracil, oral hydroxyurea, and hyperfractionated radiation for locally advanced squamous head and neck cancer. *J Clin Oncol* 19:1961-1969, 2001.
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65. Kalapurakal, J.A., Sathiaselan, S., Bista, T., Kepka, A., Mittal, B.B., Marymont, M.H.: Analysis of Lens dose in children with Acute leukemia receiving cranial radiation utilizing MLC and Secondary blocking with modern linear accelerators. Int. J. Radiat. Oncol. Biol. Phys 45: numbers Supplement. Page 406, abstract #2250, 1999
66. Kalapurakal, J.A., Ilahi, Z., Bista, T., Kepka, A.G., Mittal, B.B., Marymont, M.H.: Feasibility and accuracy of stereotactic radiotherapy using Laitinen Stereoadapter in adult and Pediatric Brain tumors. Radiology 213, 237, 1999.
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74. Kalapurakal, J.A., Pierce, M., Mittal, B.B., Woloschak, G., Sathiaselan, V. Noteworthy clinical response with hyperthermia, radiation and LHRH agonist in locally advanced, androgen refractory +/- radiation refractory prostate cancer. Proceedings of the American Society of Clinical

Oncology. (Journal of Clinical Oncology 2000, #1395, 354a).

75. Mittal, B.B., Kepka, A., Mahadevan, A., Kies, M.S., Pelzer, H., Rademaker, A., Logemann, J.: Use of missing tissue compensators and MLC intensity modulation to reduce toxicity from combined radiation and chemotherapy for head and neck cancers. *Int. J. Radiat. Oncol. Biol. Phys.* No. 3, Vol. 48, 324-325, 2000.
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77. Mittal, B.B., Kepka, A., Mahadevan, A., Kies, M.S. et al: Use of IMRT to reduce Toxicity from Concomitant Radiation and Chemotherapy for Advanced Head and Neck Cancers. *Int. J. Radiat. Oncol. Biol. Phys.* No. 3, Vol. 48, 82-83. Supplement 1, 2001.
78. Brockstein, B., Haraf, D.J., Kies, M., Stenson, K., Mittal, B.B., Pelzer, H., Rosen, F., Wenig, B., Chung, T., Vokes, E.E. Patterns of failure and risk factors for locoregional and distant metastases after intensive concomitant chemotherapy and hyperfractionated radiotherapy for head and neck cancer. *Lung Cancer* 34:S48, 2001.
79. Oh, J.L, Vokes, E., Kies, M., Mittal, B.B., Witt, M.E., Weichselbaum, R., Haraf, D.J. Induction chemotherapy followed by concomitant chemoradiotherapy in the treatment of locoregionally advanced nasopharyngeal cancer. *Lung Cancer* 34: S60, 2001.
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81. Vokes, E.E., Rosen, F.R., Kies, M.S., List, M.A., Rademaker, A., Stenson, K., Brockstein, B.E., Portugal, L., Mittal, B.B., Pelzer, H., Argiris, A., Williams, R.D., Weichselbaum, R.R., Haraf, D.J.: Weekly carboplatin and paclitaxel followed by concomitant T-FHX chemoradiotherapy for advanced head and neck cancer: a potentially successful strategy. *Proceedings of ASCO Volume 21, Abstract #916, Page 230a, May 2002.*
82. Brockstein, B.E., Haraf, D.J., Kies, M.S., Stenson, K., Mittal, B.B., Pelzer, H., Fung, S., Rademaker, F., Rosen, F., Portugal, L., Eng, C., Wenig, B., Weichselbaum, R., Vokes, E.E.: Survival, patterns of failure, and risk factors for recurrence after intensive concomitant chemoradiation (CRT) for squamous cell head and neck cancer (SCHNC). *Proceedings of ASCO Volume 21, Abstract #918, Page 230a, May 2002.*
83. Smith, S.M., Argiris, A., Stenson, K., Haraf, D., Kies, M.S., Brockstein, B.E., Mittal, B.B., Jayaram, P., Pelzer, H.J., Rosen, F., Vokes, E.E.: Combined modality therapy (CMT) with chemoradiation (CRT) for squamous cell carcinoma of the head and neck from an occult primary. *Proceedings of ASCO Volume 21, Abstract #937, Page 235a, May 2002.*
84. Eng, C., Haraf, D., Stenson, K., Dai, L., Rosen, F., Portugal, L., Kies, M., Mittal, B.B., Brockstein, B.E., Argiris, A., Cohen, E., Weichselbaum, R.R., Vokes, E.E.: Organ preservation by hyperfractionated concomitant chemoradiotherapy in intermediate stage squamous cell carcinoma of the head and neck. *Proceedings of ASCO Volume 21, Abstract #938, Page 235a, May 2002.*

85. List, M.S., Haraf, D., Egan, R., Bilir, P., Mittal, B.B., Argiris, A., Rosen, F., Stenson, K., Dignam, J., Vokes, E.E.: Improved 12-month oral function post concurrent chemoradiotherapy (CRT) for head and neck cancer (HNC). Proceedings of ASCO vol. 22, Abstract #2004, Pg. 498. May 2003.
86. Haraf, D.J., Stenson, K., Rosen, F., Argiris, A., Portugal, L., Mittal, B.B., List M., Witt, M.E., Williams, R.D., Vokes, E.E.: Weekly carboplatin (C) and paclitaxel (T) followed by concomitant T-FHX with reduced dose XRT for advanced head and neck cancer. Proceedings of ASCO vol. 22, Abstract #2009, Pg. 499. 2003.

**INTRAMURAL PROTOCOL PARTICIPATION:**

Bharat B Mittal, MD: Principal Investigator

1. A Phase I/II Study of Hyperthermia Adjuvant to Surgery and Irradiation in High-Risk Cervical Lymph Node Metastases from Head and Neck or Unknown Primaries.
2. A Phase I Trial of Hyperthermia with Concurrent Radiation Therapy Utilizing [-----  
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3. Phase I/II Clinical Trial - Evaluation of Combined Hyperthermia and 131I Anti-CEA Monoclonal Antibody in Patients with Liver Metastases and/or Pelvic/Abdominal Recurrence from Colorectal Cancer.

Bharat B Mittal, MD: Co-Investigator

1. A Phase I/II Study - Combination of Radiotherapy, Chemotherapy and Hyperthermia using the -----  
-----] Applicator in Patients with Advanced or Recurrent Abdomino/Pelvic Tumors.
2. A Phase II Study of Intensive Concomitant Chemoradiotherapy with Filgrastim for Patients with Loco-regionally Advanced Head and Neck Cancer.
3. A Phase I/II Study: High Dose Chemoradiotherapy with Stem Cell Support in Patients with Relapsed or Refractory Hodgkin's Disease.
4. Treatment of Relapsing and Refractory Multiple Myeloma with High Dose Chemo/Radiotherapy, Peripheral Stem Cell Rescue and GM-CSF.
5. Dose Escalation of VP-16 In Conjunction with Cyclophosphamide and TBI as Preparative Regimen for Allogenic and Autologous Bone Marrow Transplantation for Lymphoblastic Lymphoma and Acute Lymphoblastic Leukemia.
6. Allogenic BMT for Patients with Chronic Myelogenous Leukemia in the Chronic Phase. A Phase II Pilot Study.
7. Autologous BMT in Patients with Hodgkin's disease and Non-Hodgkin's Lymphoma with High Dose Cyclophosmide, TBI and Involved Field Radiation Therapy.
8. A Phase I Study of Concomitant Chemo0radiotherapy with Gemcitabine, Paclitaxel, and 5-FU for Patients with Advanced and/or Recurrent Cancer of the Head and Neck.



9. Hyperfractionated Radiotherapy with Concomitant 5-FU and Hydroxyurea for Intermediate Stage Cancer of the Head and Neck.
10. Immuno Ablation and Hematopoietic Stem Cell Support in Patients with Malignant Multiple Sclerosis.
11. High Dose Chemo-radiotherapy with Stem Cell Allogeneic Cellular Rescue in Patients with Relapsed or Refractory Hematologic Malignancy. A Phase I/II Study
12. T-cell Depleted (TCD) Partially Matched Related Donor Hematopoietic Stem Cell Transplantation for High Risk Hematologic Diseases Using Intense Pre and Post Transplant Immunosuppression and Megadose CD34 "VETO" Cells.

**INVITED LECTURES/PRESENTATIONS/POSTERS:**

January 15, 1982: Transglottic Cancer. Lecture delivered at Wayne State University, Detroit.

January 27, 1982: Transglottic Cancers. Lecture delivered at St. Louis University, St. Louis, Missouri.

March 15, 1982: Transglottic Tumors. American Radium Society Meeting, San Antonio, Texas.

October, 1982: Role of Irradiation in the Management of Early Glottic Carcinoma. Presented at American Society of Therapeutic Radiology, Orlando, Florida.

October, 1982: Gastric Lymphoma. Presented at American Society of Therapeutic Radiology, Orlando, Florida.

January 8, 1983: Gastric Lymphoma. Speaker, Surgery Grand Rounds, University of Pittsburgh, Pittsburgh, PA.

March 30, 1984: Management of Laryngeal Carcinoma and Gastric Lymphoma. Lecture delivered at Northwestern University, Chicago, Illinois.

June 15, 1984: Gastric Lymphoma. Poster presentation. Second International Conference on Malignant Lymphoma. Lugano, Switzerland.

October 10, 1984: Primary Cancers of Extrahepatic Biliary Passages. Poster presentation. American Society of Therapeutic Radiologist and Oncologist. Washington, D.C.

November 1, 1984: Clinical Applications of Radioactive Implants. American Cancer Society Continuing Education Program. Pittsburgh, PA.

November 19, 1985: Paraocular Lymphoid Tumors. Radiological Society of North America 71st Annual Meeting. Chicago, Illinois.

November 19, 1985: A Study of Penile Circulation Before and After Radiation in Patients with Prostate Cancer and Its Effect on Impotence. RSNA 71st Annual Meeting. Chicago, Illinois.

January 18, 1986: Basic Concepts of Radiation Oncology. Otolaryngology Grand Rounds. Northwestern University, Chicago, Illinois.

January 24, 1986: Latest Treatment of Breast Cancer with Radiation. American Cancer Society Continuing Education Program. Oak Park Hospital, Chicago, Illinois.

August 1, 1986: Sequencing of Heat and Radiation in the Treatment of Malignant RIF Tumors in Murine System. Loyola/VA Hines, Chicago, Illinois.

January 15, 1987: A Study of Penile Circulation Before and After Radiation in Patients with Prostate Cancer. MART Meeting, Rush-Presbyterian-St. Luke's Medical Center, Chicago, Illinois.

April 8, 1987: Innovative Approaches in the Management of Advanced Head and Neck Cancers. The Ninth Annual Spring Head and Neck Workshop, Snowbird, Utah.

June 19, 1987: Importance of Sequencing of Heat and Irradiation with its Clinical Applications. Hyperthermia Symposium, Rush-Presbyterian-St. Luke's Medical Center, Chicago, Illinois.

March 2, 1988: Treatment of Advanced Head and Neck Cancer. Mercy Hospital, Chicago.

March 8, 1988: Radioactive Implants in Head and Neck Cancers. Society of Otorhinolaryngology/Head and Neck Nurses. Steamboat Springs, Colorado.

March 10, 1988: Intraoperative Radiotherapy/Hyperthermia Treatment of Advanced Head and Neck Cancers. The Tenth Annual Spring Head and Neck Workshop. Steamboat Springs, Colorado.

March 7, 1989: Brachytherapy in the management of Head and Neck Cancers. Society of Otorhinolaryngology/Head and Neck Nurses. Steamboat Springs, Colorado.

March 9, 1989: Altered Fractionation and Hyperthermia in the treatment of advanced Head and Neck Cancers. The Eleventh Annual Spring Head and Neck Workshop. Steamboat Springs, Colorado.

November 16, 1989: Radiation therapy's role in the treatment of Head and Neck Cancers. Oncology for Clinicians Update 1989, Kellogg Cancer Care Center, Evanston Hospital, Evanston, Illinois.

April 8, 1990: Feasibility Studies of an Implantable Telemetric Temperature Sensor for Deep Hyperthermia Applications. RSS/NAHG Meeting. New Orleans, Louisiana.

August 18, 1990: Hyperthermia in Cancer Treatment. Cancer Management Conference. Key Biscayne, Florida.

October 18, 1990: Evaluation of a Telemetric Temperature Sensor for Deep Hyperthermia Applications. American Society of Therapeutic Radiation Oncology. Miami Beach, Florida.

January 26, 1991: MODERATOR: Controversies of Radiation and Chemotherapy in Head and Neck Cancers. Thirteenth Annual Sisson-International Head and Neck Workshop. Vail, Colorado.

January 31, 1991. Controversies of Radiation Oncology in the Management of Head and Neck Cancers. Thirteenth Annual Sisson-International Head and Neck Workshop. Vail, Colorado.

June 5, 1991. Role of Hyperthermia in the Management of Malignant Tumors. Ravenswood Hospital Tumor Board, Chicago, Illinois.

July 8, 1991. Combined Effects of  $^{131}\text{I}$  Anti-CEA MOABS and Hyperthermia on Human Tumor Xenografts in Nude Mice. Ninth International Congress of Radiation Research. July 7-12, 1991. Toronto, Canada.

September 10, 1991. Role of antibodies and hyperthermia in cancer management. Greater St. Louis Society of Radiologists. St. Louis, MO.

September 12, 1991. Effects of RMOABs and hyperthermia on human xenografts. Mallinckrodt Institute of Radiology, St. Louis, MO.

November 15, 1991. Clinical Application of Deep Hyperthermia. Keynote Speaker. Chicago Midwest Hyperthermia meeting. Northwestern University, Chicago, IL.

December 6, 1991. Radiation in early stage laryngeal cancer. The Malnati Symposium. Westin Hotel, Chicago, IL.

December 17, 1991. Hyperthermia as an adjuvant to Radioimmunotherapy in Human Xenografts. University of Kentucky, Lexington, Kentucky.

April 28, 1992. Regional hyperthermia using BSD-2000 system with Sigma-60 Applicator for advanced malignant tumors. Sixth International Congress on Hyperthermic Oncology. Tucson, Arizona.

October 23, 1992. Non-Oat Cell Carcinoma of the Lung. Tenth Annual Fall Cancer Conference. Holy Family Hospital. Chicago, Illinois.

July 20, 1993. Role of Radiation and Hyperthermia in the management of Malignant Tumors. Michael Reese Medical Center, Chicago, Illinois

November 1, 1993: Altered Fractionation. Management of Stage III and IV Squamous Cell Carcinoma of the Head and Neck. Chicago Athletic Association, Chicago, Illinois.

July 21, 1994: Hyperthermia as an adjuvant to radiation in the management of malignant disorders. Michael Reese Medical Center, Chicago, Illinois.

June 9, 1995: Cancers of the Head and Neck: New Radiation Therapy Techniques. Oak Park Hospital, Chicago, Illinois.

June 16, 1995: MODERATOR: Thoracic Oncology Session of Sixth Annual Malnati Symposium. Robert H. Lurie Cancer Center of Northwestern University Medical School, Chicago, Illinois.

June 30, July 1, 1995: Chairman CME Program. AAPI Convention, Sheraton Hotel, Chicago, Illinois.

August 11, 1995: Visiting Professor. Rush-Presbyterian St. Luke's Medical Center, Chicago, Illinois.

April 14 - 17, 1996. A Phase I/II Trial of Combined I-131 Anti CEA Monoclonal Antibodies and Hyperthermia in Patients with Advanced Colorectal Carcinoma. 44th Radiation Research Society Meeting, Chicago.

December 11, 1997: Induction Chemotherapy with Cisplatin, 5-FU, Leucovorin (or the L-stereoisomer) and  $\alpha$  Interferon –  $2\beta$  followed by 5-FU, Hydroxyurea and Radiation in Advanced Squamous Head and Neck Cancer. International Federation of Head and Neck Oncologic Societies. Asia – Pacific Congress. Mumbai, India.

December 22, 1998: Concomitant Chemo-radiotherapy in the Management of Advanced Squamous Cell Carcinoma of Head and Neck. Institute De Oncologia, Angel H. Roffo. University of Buenos Aires.

December 30, 1998: Role of Combined Radiation and Chemotherapy in the Management of Advanced Head and Neck Cancers. Improved Survival and Organ Preservation. Radioterapia Botafoga, Rio de Janeiro, Brazil.

October 24, 2000: Use of Intensity Modulation to reduce Toxicity from combined radiation and chemotherapy for Head and Neck Cancers. ASTRO. Boston.

November 7, 2001: Use of Tissue/Dose Compensation to reduce Toxicity from Combined Radiation and Chemotherapy for Head and Neck Cancers. ASTRO. San Francisco.

December 8, 2001: Use of Intensity Modulation to achieve Tissue/Dose Compensation to reduce toxicity from concomitant Radiation and Chemotherapy for Advanced Head and Neck Cancers. Association of 3-Dimensional Conformal Radiotherapy. Nagoya, Japan.

October 10, 2003: IMRT in the Management of Malignant Disorders. Thorek Hospital, Chicago

December 18, 2003. Role of Radiation in the Management of Head and Neck Cancer. Grand Rounds Head & Neck Surgery, Northwestern University, Chicago

April 3, 2004. Paradigm shift in the management of Head and Neck Cancer. ASTRO Spring Refresher Course Chicago.

October 9, 2004. Co-Chair. Session on Head and Neck Cancers. The 3<sup>rd</sup> International Symposium on Malignancies of the Chest and Head and Neck, Chicago.

November 30, 2004. Poster Reviewer for Radiation Oncology at RSNA, Chicago.

May 3, 2005. Swallowing after chemoradiation for Head and Neck Cancers. The Effects of Xerostomia and Fibrosis/Edema. 87<sup>th</sup> Annual Meeting American Radium Society. Barcelona, Spain.