

Radiation Oncology Beam

Volume 1, Issue 1

December 2007

Important Dates

Collaborative IRB Training Initiative (CITI) Basic Course
Deadline: December 28, 2007
<http://www.umdnj.edu/hsweb/Education/index.html>

NIH R01 Unsolicited Applications
Deadline: February 5, 2008
<http://grants.nih.gov/grants/funding/submissionschedule.htm>

NIH Other (R03, R21, R33, R34, R36) Unsolicited Applications
Deadline: March 16, 2008
<http://grants.nih.gov/grants/funding/submissionschedule.htm>



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First Annual Radiation Oncology Translational Research Retreat

The Department of Radiation Oncology held its first annual Translational Research Retreat on Monday November 19, 2007 at The Cancer Institute of New Jersey.

The event provided an intimate setting for faculty and residents from the divisions of Clinical Radiation Oncology, Radiation Cancer Biology and Radiation Physics to discuss their ongoing, as well as developmental, research projects, to field questions from their colleagues about their research and to broach possible collaborative and translational projects.

The retreat was conceived and organized by the host,

Radiation Cancer Biology Zhiyuan Shen, Ph.D. at
Zhiyuan Shen, Ph.D. It was well attended by members of the Department and was organized into three sessions, each chaired by a resident in Radiation Oncology.

The twelve presentations covered important topics in radiation oncology including dose optimization, genetic markers and biological modulations of radiation response.

For more information regarding on-going research in Radiation Oncology contact



Ning Jeff Yue, Ph.D. at podium. Forefront: Dr. Bruce Haffty (left) and Dr. Sabin Motwani (right).

shenzh@umdnj.edu or at
732.235.6101



TomoTherapy Hi-Art system.
Photo courtesy TomoTherapy.com

HDR Brachytherapy launched

In November 2007 the department launched High Dose Rate Brachytherapy (HDR) and our Brachytherapy Suite.

High-dose rate (HDR) brachytherapy involves placing a sealed source of high energy radiation directly within or near the tumor via applicators

HDR launched; Hi-ART Arrives

such as needles, tubes, plaques, and others. These applicators can be placed over the surface of the tumor or within the tumor, or placed within a body cavity near the tumor. The radioactive source is automatically moved to desired positions through the applicators to produce optimized radiation dose coverage to the tumor and spare the surrounding normal tissues. HDR brachytherapy is usually performed as a short series of outpatient procedures.

Dr. Atif Khan recently completed a fellowship in brachytherapy at Harvard and will be focusing his activities on

HDR brachytherapy.

Hi-Art System delivered

In November 2007 the department received delivery of the TomoTherapy, Inc. Hi-Art Treatment System. This system integrates optimized planning, image-guidance and helical delivery to provide precise, continuous radiation therapy from all angles around the patient. The system is scheduled to go on-line in January 2008.

For more information please contact Ning Jeff Yue, Ph.D., at yuenj@umdnj.edu for 2007 vs. 2006.

Residents' Corner

Meetings

The 49th Annual Meeting of the American Society for Therapeutic Radiology and Oncology (ASTRO) was held October 28, 2007 through November 1, 2007 in Los Angeles California.



The Exhibit Hall at the 48th Annual ASTRO Annual Convention in Los Angeles California
Photo Courtesy www.astro.org

Chief resident Sharad Goyal, MD presented a poster entitled "Dynamic Multileaf Collimation (dMLC) with Fluence Modulation for Whole Brain Radiotherapy" and participated in a meeting for an ASTRO committee called the Education Sessions Subcommittee of the Education Council.

Matt Poppe, MD attended ASTRO as an

Executive Committee Member of the Association of Residents in Radiation Oncology (ARRO).

Brett Lewis, MD attended ASTRO and was elected to join the "Emerging technologies Evaluation Committee" of ASTRO.

Abstracts

Sharad Goyal, MD submitted a manuscript for the abstract above entitled "Improvement in Dose Homogeneity with Electronic Tissue Compensation Over IMRT and Conventional RT In Whole Brain Radiotherapy" to the Inter-

national Journal of Radiation Oncology, Biology & Physics.

Dr. Poppe's abstract entitled, "Choosing the Modality of Radiation Therapy in Pancreatic Carcinoma: a Dosimetric Comparison of Intensity Modulated and 3D Conformal Radiotherapy" was accepted by the American Society of Clinical Oncology (ASCO) GI Symposium, to be held in Orlando, FL in January 2008.

Dr. Lewis submitted an abstract entitled "Electronic Tissue Compensation (EC) is dosimetrically superior to Inversely-Planned IMRT (IP_IMRT) for tangents to the intact breast after breast-conserving surgery" to the American Radium Society being held in Laguna Niguel, CA in May 2007.

New Recruits

The Department of Radiation Oncology welcomes three new recruits: Dr. Bing Xia, Ph.D., Dr. Atif Khan, M.D. and Ms. Sharda Kohli, M.B.A.

Dr. Bing Xia received his Ph.D. in 2001 from the Department of Biochemistry at UMDNJ-RWJMS. He joins us from the Dana-Farber Cancer Institute and Harvard Medical School. Dr. Xia joins the division of Radiation Cancer Biology as an Assistant Professor.

Dr. Atif Khan received his M.D.

from Aga Khan University Medical College in Karachi, Pakistan. He completed his internship in the Department of Internal Medicine at the Hospital of St. Raphael's in New Haven, CT. Dr. Khan received his M.S. in Radiological Sciences from Rush University in Chicago IL and completed his residency in the Department of Radiation Oncology at Rush University Medical Center. Dr. Khan also completed a fellowship in brachytherapy at Harvard. Dr. Khan joins the Division of Clini-

cal Radiation Oncology as Assistant Professor.

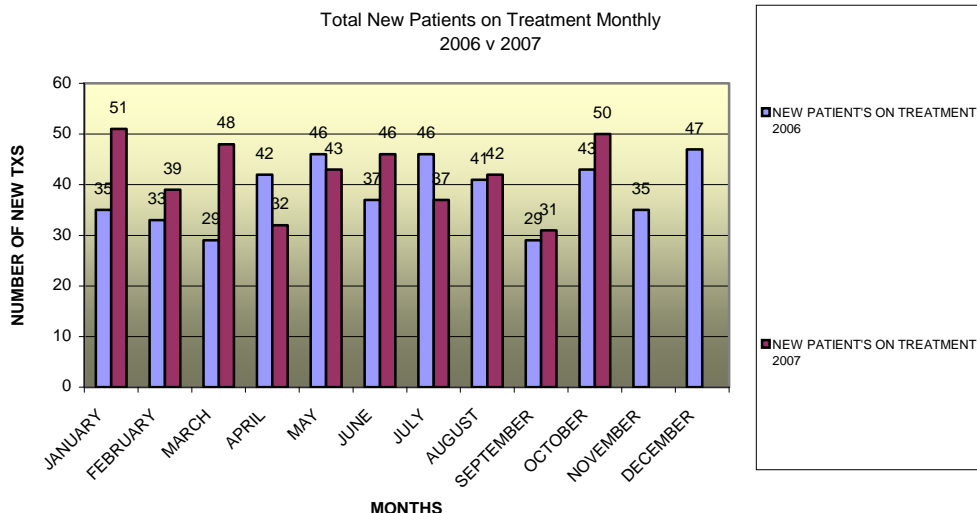
Ms. Sharda Kohli received her B.S. from New York University in Biology and her M.B.A. in Finance from Baruch College, City University of New York. She has over 15 years of experience in academic department management and joins us from the Department of Medicine at UMDNJ—New Jersey Medical School in Newark.

Welcome aboard to all!

Clinical Stats

November saw a continuation of the upward trend in Total New Patients on Treatment. New patients receiving treatment have increased despite a decrease in the number of total consults for October and November 2007. The decrease in total consults was directly related to reduced staffing.

It is expected that the upward trend in new patients on treatment will continue through the end of the calendar year and the total number of consults will increase as the impact of the full complement of physicians is achieved.



Extramural Funding

Evaluation of the P53 binding in Local Regional Management of Breast Cancer

The Breast Cancer Research Foundation

PI: Bruce Haffty, M.D.

October 2007—Sept 2008

Total Award: \$216,000

Significance of SNP309 in early onset breast cancer (Age specific prevalence of SNP in the MDM2 Gene)



The Cancer Institute of New Jersey

PI: Bruce Haffty, M.D.

September 2007—August 2008

Total Award: \$52,850

Regulation of BCCIP, a BDCA2-Interacting Protein in DNA Repair and Breast Cancer

Department of Defense

PI: Huimei Lu/Mentor Zhiyuan Shen, M.D., Ph.D.

August 2007—April 2008

Total Award: \$27,211

Regulation of Cell Cycle by BCCIP, a BRCA2 and CDKN1A (Cip/p21) Interacting Protein

Department of Defense

PI: Zhiyuan Shen, M.D., Ph.D.

August 2007—April 2008

Total Award: \$199,426

Recent Publications

Bruce Haffty, MD, Professor:

Smith BD, Haffty BG, Smith GL, Hurria A, Buchholz TA, Gross CP.

Use of Postmastectomy Radiotherapy in Older Women.

Int J Radiat Oncol Biol Phys. 2007 Nov 7; PMID: 17996393

Wilson LD, Yu JB, Haffty BG. National Residency Matching Program

(NRMP) results for radiation oncology: 2007 update. *Int J Radiat Oncol Biol Phys.* 2007 Oct 1;69(2):326-7. No abstract available. PMID: 17869658

Parikh RR, Yang Q, Higgins SA, Haffty BG. Outcomes in Young Women with Breast Cancer of Triple-Negative Phenotype: The Prognostic Significance of CK19 Expression.

Int J Radiat Oncol Biol Phys. 2007 Sep 11; PMID: 17855007

Atif Khan, MD, Assistant Professor:

Mutyala S, Choi W, Khan AJ, Yaparalvi R, Stewart AJ, Devlin PM.

Inherent change in MammoSite applicator three-dimensional geometry over time.

Radiat Oncol. 2007 Sep 24;2:37.

PMID: 17892557

Ning Jeff Yue, PhD, Professor:

Selvaraj RN, Beriwal S, Pourarian RJ, Lalonde RJ, Chen A, Mehta K, Brunner G, Wagner KA, Yue NJ, Huq SM, Heron DE.

Clinical Implementation of Tangential Field Intensity Modulated Radiation Therapy (IMRT) Using Sliding Window Technique and Dosimetric Comparison with 3D Conformal Therapy (3DCRT) in Breast Cancer.

Med Dosim. 2007 Winter;32(4):299-304. PMID: 17980832

Ding C, Li X, Huq MS, Saw CB, Heron DE, Yue NJ.

The effect of respiratory cycle and radiation beam-on timing on the dose distribution of free-breathing breast treatment using dynamic IMRT.

Med Phys. 2007 Sep;34(9):3500-9. PMID: 17926953

Ning J. Yue, Sung Kim, Salma Jabbour, Venkat Narra, Bruce G. Haffty,

A strategy to objectively evaluate the necessity of correcting detected target deviations in im-

age guided radiotherapy □, *Med. Phys.*, 34 (11):4340-4347, 2007

Zhiyuan Shen, MD, PhD, Associate Professor:

Lu H, Yue J, Meng X, Nickoloff JA, Shen Z. BCCIP regulates homologous recombination by distinct domains and suppresses spontaneous DNA damage.

Nucleic Acids Res. 2007 Oct 18; PMID: 17947333



THE DEPARTMENT OF RADIATION ONCOLOGY AT UMDNJ - RWJMS AND CINJ AND RWJUH

Bruce G. Haffty MD

Professor and Chair

Clinical Radiation Oncology

- **Molly Gabel, MD**
Associate Professor and
Chief, Clinical Radiation Oncology
- **Alan Cohler, MD**
Instructor
- **Salma Jabbour, MD**
Assistant Professor
- **Eduard Kagan, MD**
Assistant Professor
- **Atif Khan, MD**
Assistant Professor
- **Sung Kim, MD**
Assistant Professor and
Associate Director, Residency Training Program
- **Michael McKenna, MD**
Assistant Professor

Residents

- **Sharad Goyal, MD**
Chief Resident PGY-5
- **Brett Lewis, MD, PhD**
PGY-3
- **Matthew Poppe, MD**
PGY-3
- **Parima Daroui, MD, PhD**
PGY-2
- **Sabin Motwani, MD, PhD**
PGY-2

Radiation Physics

- **Ning Jeff Yue, PhD**
Professor, Vice Chair and
Chief, Radiation Physics
- **Satish Jaywant, PhD**
Associate Professor
- **Venkat Narra PhD**
Associate Professor

Advance Practice Nurses

- **Jayne Camporeale, RN, MSN, APN**
- **Dorothy Pierce, RN, MSN, APN**

Radiation Cancer Biology

- **Zhiyuan Shen, MD, PhD**
Associate Professor and
Chief, Radiation Cancer Biology
- **Bing Xia, PhD**
Assistant Professor

Clinical Services at RWJUH

- **Rich Ragovin, BS**
Director
- **Jisseelle Nater**
Operations Manager
- **Scott Barnes**
Chief of Dosimetry
- **William Witherup**
Chief Therapist
- **Sushma Patel**
Assistant Chief Therapist
- **Riham Davis**
Dosimetrist
- **Theresa Singley, RN**
Nurse
- **Jacqueline Tull, RN**
Nurse
- **Carie Strauss**
Therapist
- **Krystin Greene**
Therapist
- **Ann Marie Maisel**
Therapist
- **Mary Kazio**
Therapist

- **Susan Resavy**
Therapist
- **Lillian Hosein**
Therapist
- **Melissa Mareth**
Therapist
- **Mohammed Anjum**
Therapist
- **Kevin Sinn**
Therapist
- **Brenda Adell**
Medical Biller
- **Gladys Torres**
Medical Biller
- **Terry Blekeski**
Medical Biller
- **Shelly Muhannad**
Clerical Coordinator
- **Melissa Morales**
Clerical
- **Azalia Laguna**
Clerk
- **Jenise Bell**
Tech Assistant
- **Tonya Sharpe**
Receptionist

Academic Administration at RWJMS and CINJ

- **Sharda Kohli, MBA**
Clinical Department Administrator
- **Jo-Ella McClinnon**
Management Assistant
- **Odalys Sanchez**
Secretary I
- **Rosa Schweighardt**
Secretary II

New Satellite Office Opens at Raritan Bay Medical Center at Old Bridge

In November the department of Radiation Oncology at UMDNJ—Robert Wood Johnson Medical School and the Cancer Institute of New Jersey and Robert Wood Johnson University Hospital officially opened a satellite office Raritan Bay Medical Center at Old Bridge.

The new satellite office aims to provide cancer treatment information to northern Middlesex County residents and those in surrounding areas.

Radiation Oncology physicians that will be on-site are:

Bruce G. Haffty, M.D., Professor and Chair, Department of Radiation Oncology at UMDNJ—Robert Wood Johnson Medical School; Chair, Radiation Oncology at CINJ; and Chief,



*Medical Arts Building at Raritan Bay Medical Center at Old Bridge.
Photo courtesy www.rbmc.org*

Radiation-Oncology at Robert Wood Johnson University Hospital. Alan Cohler, M.D., Instructor, Department

of Radiation Oncology at UMDNJ—Robert Wood Johnson Medical School; Radiation Oncologist at CINJ; and Attending Physician at Robert Wood Johnson University Hospital.

Salma K. Jabbour, M.D., Assistant Professor, Department of Radiation Oncology at UMDNJ—Robert Wood Johnson Medical School; Radiation Oncologist at CINJ; and attending physician at Robert Wood Johnson University Hospital.

Outpatient consulting services are offered in the Medical Arts Building, Suite 409, One Hospital Plaza, in Old Bridge. Office Hours are Monday and Thursday from 9 a.m. to noon. Appointments can be made by calling 732.360.0817.