



## A Radiologist's View of Liver Cancer Treatment

by Carl Tack, M.D.

Hepatocellular carcinoma (HCC) is the sixth most common cancer in the world. It claims half a million lives each year. The incidence and mortality of HCC are growing in the United States. Hepatitis C virus is the main cause of this increase. Up to 186,000 individuals could develop HCC over the next 20 years.

The liver ranks second only to lymph nodes as a common site of metastasis of cancer from other organs. The most common extrahepatic primary cancer is colorectal cancer. Metastasis to the liver is the leading cause of death in these patients. Every year there are approximately 64,000 – 80,000 cases of metastatic colorectal cancer to the liver. Only 10 – 25% of patients with liver metastasis meet the criteria for surgical resection.

CT portography remains the most sensitive and specific presurgical imaging study to assess tumors of the liver. Catheterization of the splenic artery is preferred. Before recommending surgical resection, ablation, chemoembolization, radioembolization, Nexavar treatment or no treatment, we should know what we are treating. The morphology of liver cancer reflects its biological behavior.

Of patients suspected of having liver metastasis, as many as 30% may have benign lesions only.

Needle biopsy of at least one liver

lesion is advised. Mortality risk from needle biopsy is .031%. The incidence of needle tract seeding is .005%. The risks of therapy alone are much greater. In cirrhotic patients and patients with abnormal liver function tests, thrombin can be used to plug the tract.

Liver cancer is a regional and systemic disease. Even after liver transplantation, liver cancer may recur. As we learned more about breast cancer, operations went from radical mastectomy to lumpectomy and brachytherapy. As more is learned about liver cancer, less open surgery and more minimally invasive procedures will be performed.

Percutaneous cryoablation combined with Transarterial chemoembolization (TACE) is the treatment of choice for

liver carcinoma. It is minimally invasive, safe and effective for those patients with liver cancer unsuitable for surgery. Cryoablation has several advantages over RF ablation including the ability to produce larger and more precise zones of ablation. The most experience with these techniques comes from the FUDA Cancer Hospital in Guangzhou, China. Of 420 patients with HCC who received cryoablation and TACE, the 1,2,3,4 and 5 year survivals were 72%, 57%, 5%, 47%, 39% and 23% respectively. Of 326 patients with colorectal metastasis who received cryoablation, the 1,2,3,4 and 5 year survivals were 78%, 62%, 41%, 34% and 23% respectively. These results are comparable to those of surgery.

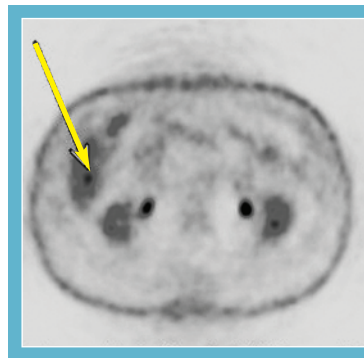
At Stony Brook, we are using second generation TACE in the form of the LC Bead which is a drug eluting bead. The beads can be loaded with Doxorubicin for treatment of HCC or with Irinotecan for the treatment of colorectal metastases. The drug elutes over a period of two weeks. The advantage of the LC Bead is enhanced necrosis of tumor and less systemic effects. When HCC is "invisible" on conventional

### HIGHLIGHTS

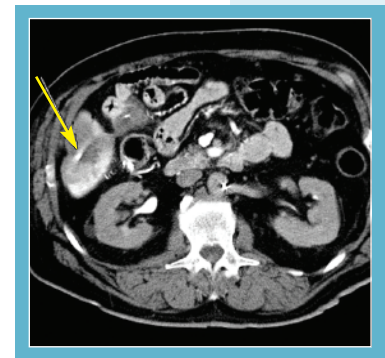
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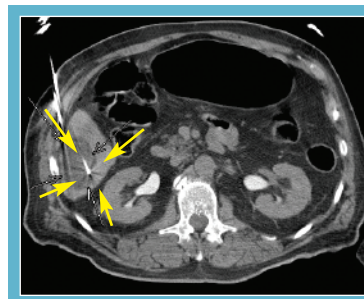
Non Contrast CT Scan of liver – lesion is "Invisible"



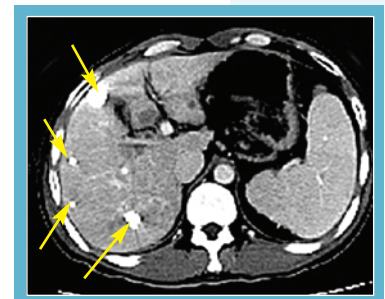
PET Scan of Liver – lesion is "Hypermetabolic"



CT Portogram of Liver – lesion is "Visible"



Liver "Iceball" after Cryoablation



Use of Lipiodol to tag multifocal lesions

imaging and difficult to access with cryoablation needles, we may perform TACE the old fashioned way with Lipiodol in order to stain the tumor for longer periods of time.

Continued on page 3

# Chairman's Corner

by John A. Ferretti, M.D.



I would like to take this opportunity to thank Dr. Harris Cohen for his years of clinical service and dedication to the educational mission of the department. Dr. Cohen will be leaving us on October 18, 2008 to take a position at the University of

Tennessee Medical Group. He will be the Vice Chair of Radiology and the Director of Radiology at the Pediatric Hospital in Memphis, an excellent opportunity for him.

Dr. Cohen began at Stony Brook University Medical Center in January 2002. His numerous articles, book reviews and contributions to the research and education in the department, hospital, and of our residents were enormous and will be sorely missed. He will leave with Professor Emeritus status upon his departure, and we hope to continue collaboration on future academic endeavors. Best wishes to our colleague and friend.

Our thanks and best wishes also go to Dr. Solomon Spector and Dr. Cora Cabahug who have also decided to leave the Department of Radiology at Stony Brook University Medical Center. Dr. Spector had worked with us since 1988 and helped to develop the GI/GU service. Dr. Cabahug began in October 1991 and was Section Chief of Nuclear Medicine beginning January 2002 and was largely responsible for the success of that division over the years.

The Residency Dinner this past June 12, 2008 (see article, page 4) was a huge success. I was particularly pleased by the many members of our alumni who attended. It was good to see and reminisce with Drs. Harold Atkins, Kathleen Finzel, Gregory Timm, Anca Kranz, Hong Meng, Edward Perkes, Patricia Roche, Bonnie Rosen, Leon Serchuk and Faith Cardone and Alice Jimenez. This coupled with the large number of our current faculty who received their training in the Department of Radiology at Stony Brook University Medical Center and the recent return of Drs. Jayne Bernier, Steven West, and Paul Fisher demonstrate our strong presence in the Long Island radiology community and a refreshing element of loyalty.

## THE RADIOLOGY LETTER

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Chairman  
Administrator  
Editor and Staff Writer

# Breast Cancer Awareness

by Christine Hubbard

October is National Breast Cancer Awareness month. This month also marks the first anniversary of the passing of a dear friend Alice Costantini. Many of us know Alice as her mom Alice Jimenez worked in the department for many years. Alice was diagnosed with breast cancer in 2001 at the age of 39 and struggled with the recurrence of the disease four years later. The words that come to mind when I think of her is "courageous, amazing". Even during trying times, she was always there for her family and friends.

In 1993, President Clinton proclaimed the third Friday of October each year as National Mammography Day. The early detection of breast cancer is important. 1. All women over the age of 40 should undergo a routine screening for breast cancer. Woman at a higher risk should begin the process earlier; 2. Regular annual breast exams and self exam is important. Women should perform a breast exam every month; and 3. mammography to be taken on an annual basis.

In 2008, the American Cancer Society estimates that 182,460 new cases of invasive breast cancer will be diagnosed among women in the United States. Carcinoma *in situ* (confined within the ducts) accounts for about 67,000 new cases each year. Overall, one in seven women will develop invasive breast cancer in their lifetime. Although the percentage is low, breast cancer also occurs in men. An estimated 1,190 cases will be diagnosed in men in 2008.<sup>1</sup>

This year the Carol M. Baldwin Breast Cancer Research Fund Inc. will be hosting its eighth annual gala to support breast cancer research at Stony Brook University Medical Center. To date, the Carol M. Baldwin Breast Cancer Research Fund, Inc. has funded more than 65 research grants totaling over \$35 million dollars.

Stony Brook University Hospital and Medical Center joined the Ward Melville Heritage Organization in presenting the annual "Walk for Beauty". This fundraiser took place on October 5, 2008 to raise money for a cure. Proceeds are used to benefit breast and prostate cancer research at Stony Brook University.

<sup>1</sup>American Cancer Society



Frances Ricco, Mammography Certified Radiology Technologist, explains mammography procedure to patient. Patient appointments for a mammography can be made by calling (631) 638-2121  
©Christine Hubbard, Radiology



# A Radiologist's View *(Continued from cover)*

In the next several months, we will be introducing Liver Radioembolization to Stony Brook Hospital. Theraspheres are glass microspheres loaded with <sup>90</sup>Yttrium. <sup>90</sup>Yttrium is a beta-emitter. Beta particles travel a few millimeters. These beads, because of their small size and flow characteristics of liver invaded by tumor, find their way into the microcirculation of the tumor itself. The advantages of Theraspheres are that it can treat multiple or large central tumors. It can be

used in patients with portal vein thrombosis. It can down-stage tumors so that operations or other procedures are possible. There is no postembolization syndrome and it can be performed on an outpatient basis. It is expensive.

For consultations regarding liver cancer treatment, please call: Dr. Carl Tack, Division of Angiography and Interventional Radiology. Office Phone: (631) 444-3652 or Cell Phone: (718) 612-4315.

## <sup>90</sup>Y-Microspheres-approved

### Therasphere

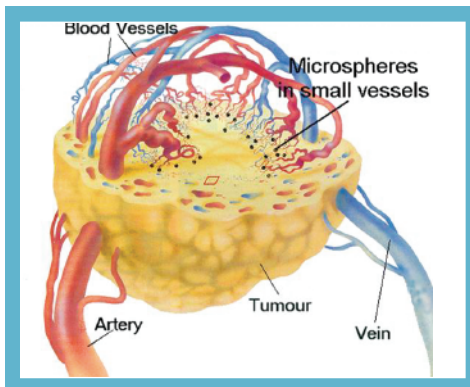
- 2-8 millionspheres per dose
- 5-10 Gbq/patient
- FDA approval (HDE) Hepatomas
- IRB-approved protocol

### Sirspheres

- 40-80 millionspheres per dose
- 2-3 Gbq/patient
- FDA approved IA FUDR
- Colorectal liver metastases



*TheraSpheres and SIRspheres used for Radioembolization*



*Microspheres enter microcirculation*

## Peconic Bay News

The Medical Center obtained the American College of Radiology's certification in Obstetrical Ultrasound, Gynecological Ultrasound, General Ultrasound, CT (Adult and Pediatric), Planar Nuclear Medicine, MRI and Mammography.



*Dr. Steven Perlmutter elected President of the Suffolk County Medical Society*

Congratulations to **Steven Perlmutter, M.D.** who was inaugurated as President of the Suffolk County Medical Society on Friday, June 6th at the Holiday Inn in Ronkonkoma, New York. Dr. Perlmutter stated "I'm delighted to be able to bring my training and experience to this position and this mission. I look forward to working closely with the talented and caring physicians in

our communities." Dr. and Mrs. James D. Badia, Dr. and Mrs. Donald P. Harrington and Dr. and Mrs. Christopher V. Saradoff were amongst the many guests.

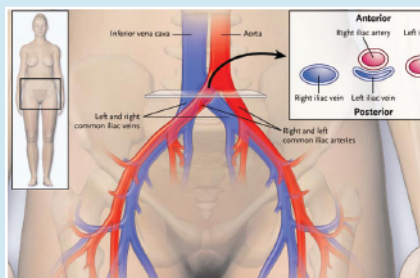
Dr. Perlmutter is a past president of the New York State Chapter of the American College of Radiology and a former president of the Long Island Radiological Society. He has served on committees of the American College of Radiology, the Medical Society of the State of New York and the Society of Uroradiology.

## May-Thurner Syndrome

*by Christine Hubbard*

I became interested in May-Thurner Syndrome when a family member was diagnosed with the disease in 2006. May-Thurner Syndrome is caused by compression of the left common iliac vein by the right common iliac artery when there is no other obvious underlying cause. This condition usually occurs in the second to fourth decade of life and estimated to occur in only 2% - 5% of patients who undergo evaluation for lower extremity venous disorders. Some studies have shown that this obstruction can occur in as high as 22 percent of the population and may go undiagnosed, and females are diagnosed with the syndrome three times more than males. Diagnosis can be obtained by performing an ultrasound of the deep venous system of the lower extremity, and a CTA can show compression of the left common iliac artery. Depending on the severity of the case, a patient may be treated with anticoagulation (systemic or local) and angioplasty with or without stent placement. Most patients will require stent placements. There are new methods of thrombolysis available

which do not necessitate 24 hour thrombolysis treatment.<sup>1</sup> Sometimes it is necessary for the patient to have long-term anticoagulation therapy. Initial success may be achieved in 87% of the patients.<sup>2</sup> Physicians interested in referring patients that require this procedure can call (631) 444-2426.



<sup>1</sup>Grand Rounds on May-Thurner Syndrome presented by Dr. Andrei Kranz.

<sup>2</sup>Uflacker R. Endovascular Therapy A Teaching File. 2002(1);102-103.

# Residency and Fellow Graduation Dinner

The Residency/Fellow Graduation Dinner was held on June 12, 2008 at Flowerfield Celebrations in St. James, New York. It was also good to see former attendings and alumni which included Drs. Harold Atkins, Kathleen Finzel, Gregory Timm, Anca Kranz, Hong Meng, Edward Perkes, Patricia Roche, Bonnie Rosen, Leon Serchuk and Faith Cardone and Alice Jimenez.

Congratulations to Ekta Gupta, M.D., Iakovos (James) Koutras, M.D (Chief Resident), Vaibhav (Vic) Mangrulkar, M.D., Anna Nidecker and Adina Sonners in completing their four-year Radiology Residency Program. All of the graduating residents are excited to continue their education and training in subspecialty fellowship programs. Dr. Gupta has accepted a Body Imaging fellowship at the University of Pennsylvania Health System in Philadelphia Pennsylvania; Dr. Koutras an MRI fellowship at the Yale University/New Haven Medical Center in New Haven, Connecticut; Dr. Mangrulkar a Musculoskeletal Radiology fellowship at the Beth Israel Deaconess Medical Center in Boston, Massachusetts; Dr. Nidecker a Neuroradiology fellowship at the Johns Hopkins Hospital and Health System in Baltimore, Maryland and Dr. Sonners an MRI fellowship at the University of Connecticut Health Center in Hartford, Connecticut.

Also, congratulations to Jeremy Baum, M.D. in completing a Musculoskeletal Radiology fellowship and Richard Pagliara, M.D. in completing an Abdominal Radiology fellowship. Dr. Baum is currently in private practice at the Nebraska Iowa Radiology Consultants in Papillion, Nebraska, and Dr. Pagliara at the Radiology Regional Center in southwest Florida.

Dr. Ferretti thanked Dr. William H. Moore for his hard work as Co-director of the Radiology Residency Program, Linda Erickson as Coordinator of the Residency Program and Chris Hubbard for organizing the event.

*Photos continue on top of page 5.*

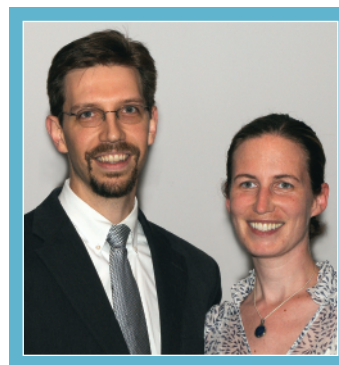
*©Marylou Stewart, Media Services, all photos.*



*Dr. Ferretti's "Unknown Case Contest" was won by Vaibhav (Victor) Mangrulkar (right) who received a textbook of his choice (Stoller's Atlas of Orthopaedics and Sport Medicine by Stoller and Beltran).*



*Harris L. Cohen, M.D. (right) congratulates Jared Dunkin, M.D. recipient of the "Roentgen Resident/Fellow Research" RSNA Research and Educational Fund for his accomplishments in radiological investigation.*



*William H. Moore, M.D. congratulates Anna Nidecker, M.D. recipient of the "Resident Teaching Award".*



*Harris L. Cohen, M.D. presents Jeremy Baum, M.D. (left) with the "Fellowship Award for Excellence in Clinical Imaging Research".*



*Ekta Gupta, M.D., Anna Nidecker, M.D., Vaibhav Mangrulkar, M.D. and Iakovos Koutras, M.D. (left to right) celebrate completion of their Residency Program.*



*Jeremy Baum, M.D. and Richard Pagliara, M.D. (right) celebrate completion of their Fellowship Program.*

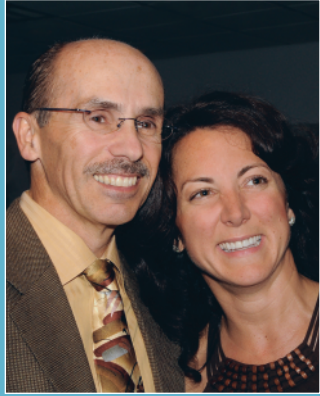


*Iakovos (James) Koutras, M.D., Chief Resident, honors Linda Erickson, Residency Coordinator, for her dedication and hard work over the past year.*



*Iakovos Koutras, M.D. (left) and John Ferretti, M.D., congratulate Dvorah Balsam, M.D., recipient of the "Teacher of the Year Award".*





*Dr. and Mrs. John A. Ferretti enjoy the celebration.*



*Attendings and Faculty Staff share the gala event.*

## Twenty-Ninth Annual Radiology Research Seminar

The purpose of this program is to provide a forum for exchange of information and discussion about clinical and basic research in the areas of diagnostic radiology and other imaging modalities. Presentations were given by the following residents from the Department of Radiology, Stony Brook School of Medicine and Winthrop University Hospital, Mineola.



*From left to right (rear) – Terry Button, Ph.D., William Moore, M.D., Hsiu Su, M.D., Jeremy Baum, M.D., Amer Naiem, M.D., Yasser Mir, M.D., Carla Ramas, M.D., Jared Dunkin, M.D. From left to right (front) Harris L. Cohen, M.D., Carla Ramas, M.D., Jose Rios, M.D., John Ferretti, M.D., Electra Kaloudis, M.D., Douglas Katz, M.D.  
©Christine Hubbard, Radiology*

### **James Kim, M.D.**

*Utilization and Yield of Imaging Examinations for Suspected Pulmonary Embolism: Trends over a Ten-Year Period at One Tertiary-Care Hospital  
Winthrop University Hospital, Mineola, NY*

### **Jared Dunkin, M.D.**

*CT Dose in Pregnancy Using Automatic Tube Current Modulation (ATCM)  
Stony Brook University Hospital and Medical Center, Stony Brook, NY*

### **David Winger, M.D., presented by James Kim, M.D.**

*Survey of IV Contrast Use and Monitoring of Renal Function for Trauma CT  
Winthrop University Hospital, Mineola, NY*

### **Yasser Mir, M.D.**

*Radiology Resident Evaluation of On-Call Neuroradiology CT/MRI Studies.  
Stony Brook University Hospital and Medical Center, Stony Brook, NY*

### **Carla Ramas, M.D.**

*Imaging-guided Percutaneous Fiducial Seed Placement in the Thoracic Spine for Cyberknife Stereotactic Radiosurgery  
Winthrop University Hospital, Mineola, NY*

### **Jeremy Baum, M.D.**

*Diffusion Tensor Imaging of Upper Extremity Peripheral Nerves  
Stony Brook University Hospital and Medical Center, Stony Brook, NY*

### **Hsiu Su, M.D.**

*The Effect of Internet Explorer on Powerscribe: Does it matter?  
Stony Brook University Hospital and Medical Center, Stony Brook, NY*

### **Jose Rios, M.D.**

*Ablation of Stage 1 Lung Cancer: The Use of Fire and Ice  
Stony Brook University Hospital and Medical Center, Stony Brook, NY*

### **Amer Naiem, M.D.**

*Needle Gauge Correlations in CT Guided Lung Biopsies.  
Stony Brook University Hospital and Medical Center, Stony Brook, NY*

### **Anna Nidecker, M.D. & Electra Kaloudis M.D.**

*Presentation given by Electra Kaloudis, M.D.  
Does Radiation Education Affect Emergency Physician Attitudes Toward Ordering Diagnostic Studies That Use Ionizing Radiation?  
Stony Brook University Hospital and Medical Center, Stony Brook, NY*

## News in the Department

**Vaibhav Mangrulkar, M.D.** presented "Intraoperative Needle Localization for Nonpalpable Testicular Tumors" at the American Institute of Ultrasound in Medicine Annual Meeting 2008 in San Diego. Drs. Mangrulkar and Cohen worked with Drs. Sheynkin and Mishail of Urology in describing the testis-sparing surgical technique.

**Harris L. Cohen, M.D.** was honored at a reception for Stony Brook's Artists, Authors and Editors for editorship of the book "American College of Radiology's Professional Self Evaluation Syllabus series, Chest Disease IV" on Wednesday, April 16, 2008 at the Charles B. Wang Center Chapel.

**Seth Klein, M.D.**, primary investigator, will be funded by the SIR Foundation Resident Research Grant Program for his research study titled: Natural History of Lower Extremity Deep Vein Thrombosis in Patients Undergoing Catheter-Directed Pharmacomechanical Thrombolysis. Nicos Labropoulos, M.D. from the Department of Vascular Surgery will be his mentor, and will be collaborating with Drs. John A. Ferretti and Antonios P. Gasparis.

**Harris L. Cohen, M.D.** named Continuous Professional Improvement (CPI) Program Chair. CPI is a self-directed study program where the clinician can earn valuable American Medical Association Physician's Recognition Award (PRA) Category 1 Credit and Self Assessment Module (SAM) credit towards their American Board of Radiology (ABR) Maintenance of Certification Program. The 2008 module topics include Pediatric Radiology, Vascular and Interventional, Chest Radiology, Breast Radiology, Gastrointestinal Radiology and Genitourinary Radiology. Dr. Cohen states "My personal desire is for CPI educational materials to be helpful to all the ACR members who read them, whether specialist or generalist, whether in training or anywhere else in one's career." Also, Dr. Cohen states "Fine learning tools should consist of excellent images, well annotated when they are explanatory images, as well as clearly written content. The underlining of key points to be learned and the explanation of any subspecialty jargon used in discussions will hopefully allow the best spreading of the intellectual wealth of the expert authors and editors who produce these works to the readership."

## *In Memory of Avishai Shapiro, M.D.*



The Faculty and Staff of the Department of Radiology were saddened to hear of the passing of Dr. Avishai (Avi) Shapiro. Dr. Shapiro began his clinical career at Stony Brook and worked as a neuroradiologist from 1995 to 1999.

He will be missed by family, colleagues and friends.

## Lecturers

**Mark Anderson, M.D.**, Associate Professor of Radiology, Associate Professor of Clinical Orthopaedic Surgery at the University of Virginia Health Sciences Center in Charlottesville, Virginia presented a Grand Rounds on "MR Imaging of the Shoulder: Labrocapsular Pathology" on Friday, March 28, 2008.

**Russ Saypoff, M.D.**, Medical Director of the American Access Care of Suffolk County and Voluntary Assistant Professor of Radiology and Staff Radiologist at the Stony Brook University Medical Center and Peconic Bay Medical Center in Riverhead, New York presented a Grand Rounds on "Dialysis Access Repair" on Thursday, April 3, 2008.

**Craig Greben, M.D.**, Chief of the Division of Interventional Radiology at the North Shore University Hospital in Manhasset, New York presented a Grand Rounds on "The Use of Detachable Hydro Coils in the Periphery: The North Shore Medical Center Experience" on Thursday, April 10, 2008.

**Dimitris N. Metaxas, Ph.D.**, Professor, Computer Science and Biomedical Engineering and Director, Computational Biomedicine Imaging and Modeling Center at the Rutgers University at the State University of New Jersey in Piscataway, New Jersey presented a Grand Rounds on "Lung Cancer Detection: Radiation Oncology Application" on Wednesday, April 16, 2008.

**Javier Beltran, M.D.**, Chairman, Department of Radiology, Maimonides Medical Center, Brooklyn, New York and Clinical Professor of Radiology at the Mount Sinai School of Medicine in New York, New York presented a Grand Rounds on "MRI of the Shoulder: Rotator Cuff" on Monday, May 5, 2008.

**Jorge Soto, M.D.**, Vice Chairman of Radiology, Associate Professor of Radiology at the Boston University Medical Center in Boston, Massachusetts presented a Grand Rounds on "64 MDCT of Multiple Trauma: A Step Forward?" on Thursday, May 8, 2008.

**Arra Suresh Reddy, M.D.**, Chief, Interventional Neuroradiology at the Beth Israel Deaconess Medical Center at the Brigham and Women's Hospital, Harvard Medical School in Boston, Massachusetts presented a Grand Rounds on "Cerebrovascular Ischemia-Endovascular Management" on Friday, May 16, 2008.

**Vincent Vigorita, M.D.**, Chairman Emeritus, Department of Pathology, Professor of Pathology and Orthopaedic Surgery, Director of Research at the Lutheran Medical Center, State University of New York Health Science Center, Kingsbrook Jewish Medical Center, St. Vincent's Medical Center, Department of Orthopaedics in Brooklyn, New York presented a Grand Rounds on "Cartilage Tumors and Tumor Like Lesions" on Wednesday, May 28, 2008.



## New Faculty

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**David J. Axelrod, M.D.** joined the faculty staff as an Assistant Professor of Clinical Radiology in the Division of Angiography and Interventional Radiology. Dr. Axelrod received his medical

degree from the State University of New York at Stony Brook in Stony Brook, New York. He completed a Clinical fellowship in Vascular and Interventional Radiology at the Mount Sinai Hospital in New York, New York followed by a residency in Diagnostic Radiology at North Shore University Hospital in Manhasset, New York. After completing the Radiology Residency Program he returned to Mount Sinai for a second fellowship where he served as Chief Fellow in Interventional Radiology. Dr. Axelrod is Board Certified in Radiology. He is a member of the Alpha Omega Alpha Honor Medical Society, Society of Interventional Radiology, Radiological Society of North America, American College of Radiology, and the Medical Society of the State of New York. Dr. Axelrod has a special interest in interventional oncology.

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**Jayne M. Bernier, M.D.** joined the faculty staff as an Assistant Professor of Clinical Radiology in the Division of Breast Imaging. Dr. Bernier received her medical degree from the New

York Medical College in Valhalla, New York. She completed a Radiology residency at Stony Brook and served as Chief Resident in her last year of residency. Dr. Bernier completed a fellowship in MRI, Ultrasound and CT at North Shore University Hospital/Cornell University Medical College in Manhasset, New York. Dr. Bernier is Board Certified in Radiology. She is a member of the American College of Radiology, Radiological Society of North America and the Long Island Radiological Society. Dr. Bernier is in private practice and will be working at Stony Brook on a part-time basis.

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**Steven F. West, D.O.** joined the faculty staff as an Assistant Professor of Clinical Radiology in the Division of Neuroradiology. Dr. West received his

medical degree from the New York College of Osteopathic Medicine in Old Westbury, New York. Dr. West completed an Osteopathic Rotating internship at the Nassau County Medical Center in East Meadow, New York. He did a Diagnostic Radiology residency at the University of Connecticut Health Science Center in Farmington, Connecticut and completed a Radiology residency at the Nassau University Medical Center in East Meadow, New York and completed a Neuroradiology fellowship at the University Hospital State University of New York at Stony Brook in Stony Brook, New York (now the University Medical Center at Stony Brook). Dr. West is Board Certified in Radiology. Dr. West is a member of the American College of Radiology, American Roentgen Ray Society, Radiological Society of North America, American Medical Association and the American Society of Neuroradiology. Dr. West comes to us from S&D Medical Llp in Bedford Hills, New York and served as Chief of Neuroradiology at Brookhaven Memorial Hospital in Brookhaven, New York.

## New Fellow



**Charles Yang, M.D.** is a musculo-skeletal fellow. He received

his medical degree at SUNY Downstate and completed his Radiology residency at the Robert Wood Johnson Medical School where he served as Chief Resident in his last year. Dr. Yang also completed an MR-Predominant Body Imaging fellowship at the Memorial Sloan-Kettering Cancer Center in New York, New York.

All photos ©Jeanne Neville, Media Services

## New Residents



**Jill Bergson, M.D.** received her medical degree at SUNY Upstate in Syracuse and completed a one-year Internal Medicine internship at SUNY Stony Brook in Stony Brook, New York.



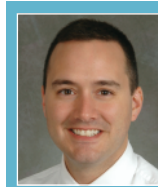
**Nipun Gupta, M.D.** received his medical degree at St. Georges University School of Medicine and completed a one-year Internal Medicine internship at Saint Joseph Mercy Health System in Ann Arbor, Michigan.



**Andrew Maleson, M.D.** received his medical degree at SUNY Stony Brook and completed a one-year Internal Medicine internship at SUNY Stony Brook in Stony Brook, New York.



**Mohammed Shaikh, M.D.** received his medical degree at SUNY Downstate and completed a one-year transitional year at the New York Hospital Queens in Flushing, New York.



**Michael Triolo, M.D.** received his medical degree at the New York Medical College, Valhalla, New York and completed a one-year Internal Medicine internship at SUNY Stony Brook in Stony Brook, New York.



**Justin Weir, M.D.** received his medical degree at the New York Medical College, Valhalla, New York and completed a one-year Internal Medicine internship at Danbury Hospital in Danbury, Connecticut.

# RADIOLOGY LETTER

*A Radiologist's Approach to Imaging Vistas* ■ State University of New York at Stony Brook

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**Dvorah Balsam, M.D.**  
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Chief, Pediatric Radiology

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Director of Abdominal Imaging  
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