



# Radical Views...

from the Department of Radiology

Volume 6, Number 10  
MAY 2014



Beth Israel Deaconess  
Medical Center

A teaching hospital of  
Harvard Medical School



### FROM THE CHIEF

Jonathan B. Kruskal, MD PhD

This month I am delighted hand over the spotlight to Senior Diagnostic Imaging Technologist

**Jeff Heinrich**

who represented us at this year's Board of Overseers Committee meeting where he was presented with a medal given to BIDMC Radiology for our efforts during the 2013 Boston Marathon!

– Jonny

Excerpt from BIDMC Today  
*BIDMC Tread Strong: A Night of Reflection, Inspiration*

Published: 4/17/2014

...The surprise of the evening came when Tabb introduced Academy Award-winning actor Kevin Spacey. Spacey, who brought cheer to BIDMC staff and victims with a six-hour visit last year, wanted to attend the evening to thank BIDMC for all it did in the wake of the bombings. He said he was "profoundly moved" by the evening.

"I'm from New Jersey, have never lived here, but we're all Boston—no matter where you come from," said Spacey as the audience burst into applause. He then introduced the crowd to the dog he adopted during his visit last year, a mastiff/German shepherd mix he named Boston.

Spacey, along with Tom Grill, executive director of the Boston Athletic Association, presented 2013 Boston Marathon medals to six BIDMC employees representing areas that performed critical functions in the bombing aftermath. Receiving medals were Meg Femino, Director of Emergency Management; **Jeff Heinrich**, Department of Radiology; Barbara Sarnoff Lee, Senior Director for Social Work and Patient/Family Engagement; Pam Peck, Department of Psychiatry; Nora Blake, Support Services; and Christopher Casey, Director of Public Service.

Access the entire article at:  
<https://portal.bidmc.org/Utility/BIDMC-Today/Archived-Stories/2014/April/DevelopmentEvent.aspx>



Photo by Theresa Johnson Herlity

TOP L to R: Jeffrey Heinrich, Kevin Spacey, Thomas Grill, Executive Director of the Boston Athletic Association and BIDMC President Dr. Kevin Tabb.

## Jeff Heinrich's Reflections on "BIDMC Strong"

The tragic events of April 15th, 2013 and the days following the Boston Marathon bombings will be forever ingrained in our hearts and minds. Yet on that day, there were also actions that demonstrated bravery in the face of evil. These were the decisions of individuals, who instead of running away, choose to face danger head on to help, to serve and to save. Through unselfish acts of kindness, strangers helping strangers, many lives were saved. Victims were rushed to various hospitals where staffs joined together as one to help and to heal.

On Thursday, April 10th, 2014 I was honored to accept a ceremonial medal on behalf of the BIDMC Radiology Department at a Beth Israel Deaconess Board of Overseers event, "BIDMC STRONG--Our City. Our Stories. Our Heroes." Along with many gracious remarks made by members of the BIDMC Overseers committee, guests heard from several inspirational voices of the BIDMC family. Each panel member related accounts of how each department dealt with the emergencies. These stories and experiences exemplified the essence of the honor and commitment the staff of BIDMC exhibits, even under extreme duress.



Dr. Richard Wolfe, Chief of Emergency Medicine, proudly spoke of how his emergency room staff worked quickly and effectively, in the face of uncertainty, assessing the immediate needs of each victim. Many victims were rushed to the OR to stabilize their injuries. Orthopaedic surgeons Dr. Arun Ramappa, and Dr. Paul Appleton, along with Acute Care Surgeon, Dr. Alok Gupta, confessed they had never imagined they would be faced with operating on individuals with such horrific wounds.



and caring of our medical center's personnel that he had experienced first-hand. Never have I seen someone so articulate and composed in his explanation of how he and his wife, also severely injured, are now changed forever. Yes, he is considered a victim of the bombing events, yet today he has one of the most positive outlooks on life. Patrick explained how he and the other victims will always have an emotional bond with each other, even as they support each other moving forward in their

treatments and in their lives. Whenever support is needed, they will be there for each other.

Nurse manager, Alison Small, R.N., described how emotionally affected she was observing her unit's nurses go above and beyond their duties, ensuring that victims and their families would feel as comfortable and as safe as possible.

Dr. Selena Haman-Ackah, Medical Director of Otolaryngology, Neurotology, and Audiology, discussed her department's success in helping the victims who suffered severe hearing damage. A procedure of transplanting tissue into the ear canal helped every victim regain some sense of hearing.

While these examples of dedication and care gave hope and solace to victims and families, in another area of the hospital, many staff members were working under a different kind of stress. One of the accused bombing assailants was experiencing his own medical battle. Dr. Daniel Talmor, Department of Anesthesia, and Dr. Robert Frankenthaler, Chief of the Division of Otolaryngology/Head and Neck Surgery, explained how physicians and medical staff members faced an emotional struggle to help an accused assailant get the proper medical treatment necessary for recovery. But each person providing care was able to place their own personal grievances and feelings aside to do what each was trained to do: provide quality support and treatment to every patient.

In the planning and preparation of this BIDMC STRONG event, the Board of Overseers sought out some of the most inspirational speakers and panel members. The organizers invited Kevin Spacey to be a special guest speaker for this event because of the respect he had paid to the victims, their families, and to the city of Boston during a time of hardship and sorrow. Mr. Spacey made visits to BIDMC, as well as other medical facilities throughout the city last April, with the goal of bringing encouragement and hope to victims, their families, and to medical staff workers.

Also speaking was Patrick Downes, a marathon bombing victim, who spent numerous weeks at our facility enduring countless surgical procedures. He spoke of the dedication

American philanthropist, Jon Huntsman, Sr. once said, "A crisis creates the opportunity to dip deep into the reservoirs of our very being, to rise to levels of confidence, strength, and resolve that otherwise we didn't think we possessed." I believe that members of the BIDMC staff possess this fortitude when called upon to provide patients with the best possible care regardless of the situation.

An emergency room scene I label as "controlled chaos" is exactly what we experienced that day, and when I remember April 15th, 2013, it's not hard to understand the compassion, expertise, dedication and care we all demonstrated. It is who we are. In the days and weeks that followed, there were many other stories and encounters with the victims and their families. Imaging studies, from nearly every modality helped to heal these victims, and our involvement in their care also helped us to heal as well.

It was an honor to be asked by my department manager Betsy Grady to accept the BIDMC STRONG Ceremonial Medal on behalf of the BIDMC Radiology Department. The ceremonial medal is an authentic 2013 Boston Marathon Medal and it will proudly be displayed in our department to recognize radiology's involvement during the Boston Marathon bombing events.

– Jeff Heinrich, Sr. Technologist  
Diagnostic Radiology

# \*Radiology Calendar MAY 2014

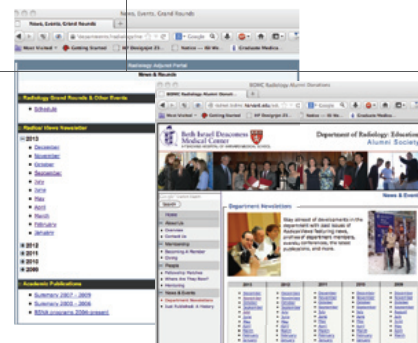
Mon	Tues	Wed	Thurs	Fri
Weekly Mon Section Meetings: 3:00-4:00 ED section meeting (monthly) [ED annex, WCC]		Weekly Wed Section Meetings: 11:00-12:00 MSK clinical conf 12:00-1:00 CardioThoracic, GI/GU Oncology 3:00-4:00 Mammo [TCC-484]	Weekly Thurs Section Meetings: 12:00 - 1:30 Abd [WCC-354] 12:00-1:00 MSK	<b>Friday Grand Rounds:</b> Sherman Auditorium, East Campus (unless stated otherwise)
		<p><b>Get your exercise with Morrison Research Day Fri., May 2:</b></p> <p>Trainee Presentations begin at 9:30 am in Shapiro 10 followed by the 19th Morrison Memorial Lecture by Dr. Pratik Mukherjee in the Sherman Auditorium with a tasty reception in the Leventhal Conf. Rm, Shapiro-2!</p>	<p><b>1</b> 7:30 - 8:15 Nuclear Medicine (Thomas Hauser) [Cardiac Imaging] 8:15 - 9:00 Nuclear Medicine (Thomas Hauser) [Cardiac Imaging] <b>12:00 - 1:00</b> ED exam review - 1st year residents -Sejal Shah [Location TBD] <b>2:00-3:00 West MedRads - Senior Resident</b></p>	<p><b>2</b> 7:30 - 8:15 Nuclear Medicine (J. Anthony Parker) [PET] 8:15 - 9:00 MIBG/Octreotide (J. Anthony Parker) <b>12:00-1:00</b> Morrison Research Day: Diffusion Tensor Imaging of Traumatic Brain Injury (Pratik Mukherjee) [Sherman Aud]</p>
<p><b>5</b> 7:30 - 8:15 Nuclear Medicine (J. Anthony Parker) [Thyroid] 8:15 - 9:00 Nuclear Medicine (J. Anthony Parker) [Thyroid]</p>	<p><b>6</b> 7:30 - 8:15 Nuclear Medicine (Elisa Franquet) [Bone scans] 8:15 - 9:00 Nuclear Medicine (Elisa Franquet)</p>	<p><b>7</b> 7:30 - 8:15 Nuclear Medicine (Kevin Donohoe) [Lymphoscintigraphy] 8:15 - 9:00 Nuclear Medicine (Kevin Donohoe) [Parathyroid imaging]</p>	<p><b>8</b> 7:30 - 8:15 Nuclear Medicine (Kevin Donohoe) [RBC/Sulfur Colloid (liver/spleen)] 8:15 - 9:00 Nuclear Medicine (Kevin Donohoe) [Meckel's/Gastric Emptying]</p>	<p><b>9</b> 7:30 - 8:15 Nuclear Medicine (Kevin Donohoe) [Brain/CSF] 12:00-1:00 pm ARRS - No Grand Rounds</p>
<p><b>12</b> 7:30 - 9:00 Board Review (Ammar Sarwar) [Cardiac MRI/CT] <b>12:00-1:00 MRI meeting [Ansin-2]</b></p>	<p><b>13</b> 7:30 - 9:00 Board Review (Elisa Flower) [Neuro] <b>10:30-11:30 NMMI meeting [GZ-103]</b></p>	<p><b>14</b> 7:30 - 9:00 Board Review (Sachin Pandey) [Neuro IR] <b>7:15 - 8:00 US meeting (WCC-304A Gallery)</b></p>	<p><b>15</b> 7:30 - 9:00 Board Review (Jonathan Kruskal) [QA and cases] <b>2:00-3:00 West MedRads - Senior Resident</b></p>	<p><b>16</b> 7:30 - 9:00 Board Review (Deborah Levine) [OB/GYN US] <b>12:00-1:00 Grand Rounds: 4th Year QA</b></p>
<p><b>19</b> 7:30 - 9:00 Board Review (Barry Sacks) [IR]</p>	<p><b>20</b> 8:00-9:00 IR Meeting [West Recovery]</p>	<p><b>21</b> 7:30 - 9:00 MRI artifacts (Leo Tsai)</p>	<p><b>22</b></p>	<p><b>23</b> 12:00 - 1:00 Grand Rounds: Chiefs' Rounds</p>
<p><b>26</b> Memorial Day Holiday</p>	<p><b>27</b> 7:30 - 9:00 Holiday Call Lottery (Chiefs) <b>10:30-11:30 NMMI meeting [GZ-103]</b></p>	<p><b>28</b></p>	<p><b>29</b> 2:00-3:00 West MedRads - Senior Resident</p>	<p><b>30</b> 12:00-1:00 Grand Rounds: 4th Year QA</p>

\*As usual, Consult the webpage for the most up-to-date schedule:  
<https://apps.bidmc.org/departments/radiology/residency/conferences/displayMonth.asp>

**In case you missed an issue!**

All back issues of Radical Views are available on the portal under "News and Events":

<https://apps.bidmc.org/departments/radiology/news/news.asp> and **we also have an outside link on the alumni site:** <http://radnet.bidmc.harvard.edu/education/newsletters.asp>



## DEPARTMENTAL GRAND ROUNDS - Guest Speakers



Friday, May 2, 2014 - **19th Annual Morrison Research Day Lecture**

12 noon - 1:00 PM • Sherman Auditorium

### **Diffusion Tensor Imaging of Traumatic Brain Injury: The proof of concept is in, will multicenter validation follow?**

**Pratik Mukherjee, MD PhD** - Professor of Radiology and Bioengineering, University of California, San Francisco • Director, Center for Imaging of Neurodegenerative Diseases, San Francisco VA Medical Center

*Diffusion tensor MR imaging (DTI) has generated much interest for detection and characterization of microstructural white matter damage from traumatic brain injury (TBI), including mild cases such as concussions. Although there have been numerous small-scale studies with carefully selected patient and control groups that suggest the diagnostic potential of DTI for TBI, its sensitivity and specificity have not yet been established in a large-scale trial of patients. The current progress in launching such multicenter studies will be presented, as well as the challenges in standardizing quantitative imaging techniques such as DTI for widespread clinical application. These new studies may also pave the way for more advanced diffusion MRI methods potentially more sensitive to TBI than DTI.*

Currently, Dr. Mukherjee is a clinical attending neuroradiologist at UCSF where he also directs a lab at the Center for Molecular and Functional Imaging in the Dept. of Radiology and Biomedical Imaging and serves as Director of the Center for Imaging of Neurodegenerative Diseases (CIND) at the San Francisco Veterans Affairs Medical Center. Dr. Mukherjee received his BA in Computer Science and Psychology from Yale University, his MD from Cornell University and his PhD in Computational Neuroscience from Rockefeller University in New York City. He completed a Radiology residency and Neuroradiology fellowship at Washington University, St. Louis before joining the faculty at UCSF in 2002. Dr. Mukherjee is currently the Chair of Neuroradiology and Head/Neck Imaging for the RSNA Scientific Program Committee and for the past 3 years, has served as co-Chair of the ASNR Research Committee as well Chair of Neuro Education for the ISMRM Annual Meeting Program Committee.

Dr. Mukherjee's research has focused on the technical development and basic and clinical neuroscience applications of advanced imaging methods for mapping structure and function in the human brain. Currently, Dr. Mukherjee's primary clinical research effort is the study of traumatic brain injury (TBI) using advanced imaging tools, including DTI, functional MRI (fMRI) and magnetoencephalography (MEG). Both diffusion tractography and resting state fMRI technology have been used in his lab to map the connectivity of human brain networks in pathologic conditions such as brain malformations and brain injury.

*Editor's Note: Dr. Mukherjee has contributed his expertise to advancing the public understanding of scientific investigations of the human brain in televised interviews for three documentary programs: "The Real Rainman" and "Beautiful Minds - A Voyage into the Brain", both of which aired internationally as well as in the USA. A third documentary on sports concussions for the KQED Quest program aired on public television locally in San Francisco and is available on the Internet for a worldwide audience.*

**The Morrison Awards will be presented in the Sherman Auditorium following Dr. Mukherjee's delivery of the 19th Morrison Research Day Lecture. Join us for a reception in the Sherman Auditorium Lobby.**

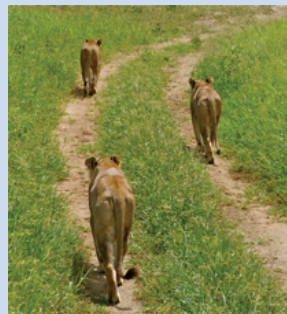
## *The Gallery:*

Wild Game Photos by Radiology Chair Dr. Jonathan Kruskal, check it out at WCC-304A!

## *Jonathan Kruskal,*

*Physician, Photographer & Wild Life Chronicler*

*Inveterate photographer and adventurer, Dr. Kruskal is pleased to share some of his favorite portraits of his beloved South African homeland.*



*JB Kruskal: Portraits of my Africa*

As always, please contact Donna Wolfe if you, too would like to share your photos, paintings or sculptures: [dwolfe@bidmc.harvard.edu](mailto:dwolfe@bidmc.harvard.edu) or 4-2515

## DEPARTMENTAL NEWS:

### ➤ BIDMC at SAR

Our abdominal staff had the opportunity to reunite with BIDMC alumni at the 2014 Society of Abdominal Radiology (SAR) Annual Meeting in Boca Raton, FL in March.

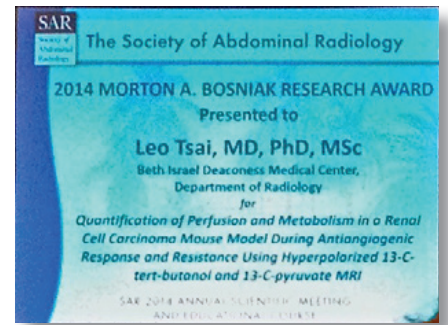
**Body MRI Fellow Leo Tsai's** research project, "Quantification of Perfusion and Metabolism in a Renal Cell Carcinoma Mouse Model During Antiangiogenic Response and Resistance Using Hyperpolarized 13-C-tert-butanol and 13-C-pyruvate MRI" was selected to receive the 2014 Morton Bosniak Research Award. Leo will present his results at the SAR meeting in Hawaii in March 2016.

**Koenraad Mortele** presented "Structured reporting in pancreatic imaging" at the plenary session on "Where you can add value now: Reporting" and a workshop, "Chronic Pancreatitis: Imaging Pearls and Perils & The Long Term Sequelae of Acute Pancreatitis: Watch Out".

**Jonathan Kruskal** presented "Analyzing Your Personal Peer Review Data – Classifying Abdominal Errors" at the interactive plenary session: *Missed Cases from Peer Review: The Value of Learning from Our Mistakes* and also served as a member of AD Hoc Scientific and Education Council Advisory Board of the SAR 2014 Annual Meeting Council.

**Herbert Kressel** presented a workshop on *Challenges for Authors and Reviewers of Scientific Research Articles*

*But the member in training sessions were the best by far...*



SAR Highlights



BIDMC reunion: (Front row) Monisha Shetty ('08), Arti Sekhar ('11), Karen Lee, Maryellen Sun, Eva Petkovska ('12), Jay Pahade ('11).



Above right: Jonny Kruskal, Maryellen Sun, Koenraad Mortele and Herbert Kressel and their spouses enjoy a meal with Leo Tsai, Vassilios Raptopoulos.



Above left: Koenraad Mortele and friends Dushyant Sahani, from MGH and Amin Chaoui from Faulkner Hospital. Above right: Dr. Mortele's daughter Mila as a member in training.



- Congratulations Vice Chair of Academic Affairs **Debbie Levine** upon being elected:  
Vice President,  
Massachusetts Radiological Society (MRS)  
Vice President,  
American College of Radiology (ACR)



ACR's newest VP Debbie Levine with husband Alex Jesurum at the April 29th ceremony.

## PUBLICATION CALL OUT: Moritz Kircher and Nahum Goldberg

### ➤ Alumni in the News:

Radiology resident **Moritz Kircher** (2005-2009) recently contacted BIDMC to give an update on research begun as a resident here and to acknowledge Drs. Jonathan Kruskal and Bettina Siewert's mentorship efforts\*.

In 2008, Moritz received a \$30K grant for *Noninvasive in vivo imaging of pleiotropic statin effects on monocyte trafficking to atherosclerotic plaques* from the RSNA Research And Education Foundation which has resulted in publication of "Dynamic Magnetic Fields Remote-Control Apoptosis via Nanoparticle Rotation" (See pg 6). Since graduating from BIDMC, Moritz has been very busy. Presently, he is an Assistant Professor of Radiology with his own research lab at Memorial Sloan Kettering: "The Kircher lab is developing novel nanoprobe for molecular imaging, image-guided therapy, and theranostics. Our ultimate goal is to develop a universal technology that allows determination of the total tumor burden in a patient before, during, and after treatment. This will allow detection of both the primary tumor, as well as metastases, both pre- and intraoperatively."



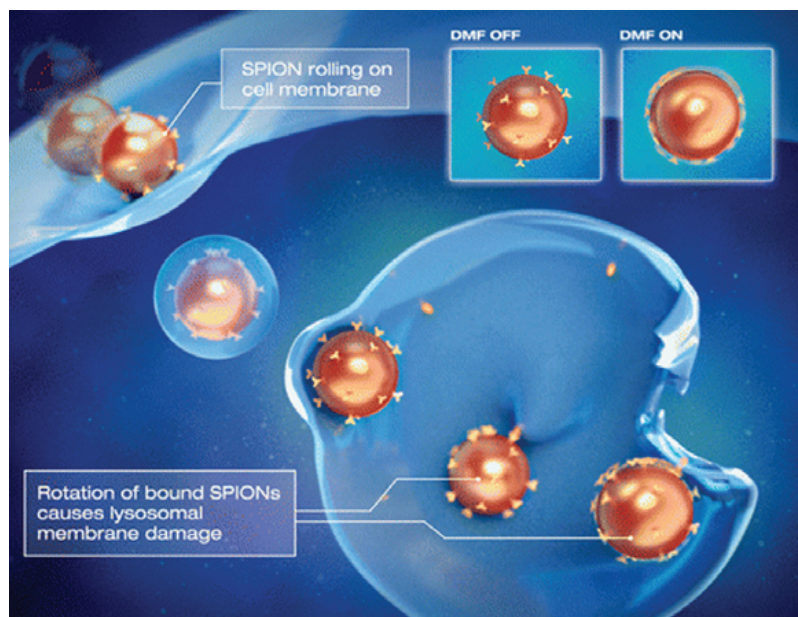
\*April 22, 2014:

...I thought you might like to see what eventually developed out of my RSNA resident grant and my 6 months in Nahum's [Goldberg] lab where we started everything. Remember when I got these German engineers come to BIDMC? Six years and a transatlantic collaboration later we finally got this project done - and it just got published in ACS Nano (Impact factor 12) and made the cover of the April issue. Thanks to your support - which I hope you will offer many more residents - we can now kill cancer cells via remote control!  
Best,  
Moritz

Moritz Kircher, MD, PhD  
Assistant Professor  
Department of Radiology  
Memorial Sloan-Kettering Cancer Center; Mortimer B. Zuckerman Research Center <http://www.mskcc.org/research/lab/moritz-kircher>

Zhang E, Kircher MF, Koch M, Eliasson L, **Goldberg SN**, Renström E. Dynamic Magnetic Fields Remote-Control Apoptosis via Nanoparticle Rotation. ACS Nano. 2014 Apr 22;8(4):3192-201. doi: 10.1021/nn406302j. Epub 2014 Mar 20. PMID: 24597847.

The ability to control the movement of nanoparticles remotely and with high precision would have far-reaching implications in many areas of nanotechnology. We have designed a unique dynamic magnetic field (DMF) generator that can induce rotational movements of superparamagnetic iron oxide nanoparticles (SPIONs). We examined whether the rotational



nanoparticle movement could be used for remote induction of cell death by injuring lysosomal membrane structures. We further hypothesized that the shear forces created by the generation of oscillatory torques (incomplete rotation) of SPIONs bound to lysosomal membranes would cause membrane permeabilization, lead to extravasation of lysosomal contents into the cytoplasm, and induce apoptosis. To this end, we covalently conjugated SPIONs with antibodies targeting the lysosomal protein marker LAMP1 (LAMP1-SPION). Remote activation of slow rotation of LAMP1-SPIONs significantly improved the efficacy of cellular internalization of the nanoparticles. LAMP1-SPIONs then preferentially accumulated along the membrane in lysosomes in both rat insulinoma tumor cells and human pancreatic beta cells due to binding of LAMP1-SPIONs to endogenous LAMP1. Further activation of torques by the LAMP1-SPIONs bound to lysosomes resulted in rapid decrease in size and number of lysosomes, attributable to tearing of the lysosomal membrane by the shear force of the rotationally activated LAMP1-SPIONs. This remote activation resulted in an increased expression of early and late apoptotic markers and impaired cell growth. Our findings suggest that DMF treatment of lysosome-targeted nanoparticles offers a noninvasive tool to induce apoptosis remotely and could serve as an important platform technology for a wide range of biomedical applications.

<http://pubs.acs.org/action/showLargeCover?jcode=anac3&vol=8&issue=4>

A dynamic magnetic field generator causes rotation of magnetic nanoparticles around their own axis. After cellular internalization, the nanoparticles enter lysosomes and bind to the lysosomal membranes. When the dynamic magnetic field is activated remotely, the shear forces created by bound nanoparticles lead to membrane permeabilization, which in turn decreases the intracellular pH and induces apoptosis of cancer cells. [Click on the link for the full article] The figure was designed by Moritz Kircher and rendered by Wenjing Wu of the Medical Graphics and Photography Office of Memorial Sloan Kettering Cancer Center.

**DEPARTMENTAL NEWS: Congratulations Graduating Diagnostic Technologists**



April 29, 2014

Under the direction of our Clinical Instructor, Ana Cordero, students spend 24 months as interns in diagnostic radiology at BIDMC. This year, 7 students completed their clinical training at BIDMC and will graduate with certificates or degrees from their respective Radiology Technologist programs at Bunker Hill Community College, Regis College and Massachusetts College of Pharmacy. We wish them the best!

L to R: Graduating technologists Armand Halilaj, Bridget Hoyer, Caitlin Shaughnessy, Heather Barboza, Hillary Philbin, Jaclyn Kelly, Josh Peters and Clinical Instructor Ana Cordero.

**Long Service Awards at Longwood Hall, Best Western Inn**

*Milestones and Transitions - Celebrating the Years*

BIDMC hosted its annual Employee Service Award Event on Tues., April 29 at Best Western Inn at Longwood Medical to honor employees celebrating their 20, 25, 30 and 40 year anniversaries. Radiology was well-presented as usual. Congratulations and thank you for so many years of dedication and service! (A 2014 celebration for those with 5, 10, and 15 year anniversaries in Radiology will be announced shortly.)



**40 Years**

Diane Diggs - Image Archives

**35 Years**

Robin Griggs - Nursing

Debra Morris - Support Svc

J. Anthony Parker - NMMI

**30 Years**

Juline Horan - Dx

Bernadette Kennedy - US

Warren Manning - Cardiac MR

Rose Stanley - Breast Imaging



Tony Parker - 35 yrs

**25 Years**

Liz Arsenault - HMFP Admin

Olga Augustus - Breast Imaging

Kevin Donohoe - NMMI

Pierre Franck - US

Jeff Fuller - MRI

Nancy Hermanns - CT

Susan Nelson - Image Archives

Karen Platcow - MRI

Rosemaine Sanon - US

Nancy Whitman - 1101 Beacon



Rosemaine Sanon - 25 yrs

**20 Years**

Margaret Appignani - Dx

Christine Boncoddio - CT

Clotell Forde - Admin

Andrea Garvin - Mobile US

Breige Ker - VIR

Herbert Y. Kressel - HMFP

Tejas Mehta - Breast Imaging

Robert Sheiman - Abd



Karen Platcow - 25 yrs



**75 years of experience in this line:** Ines Cabral-Goncalves with Juline Horan (30 yrs), Olga Augustus (25 yrs) and Tejas Mehta (20 yrs)

*Milestones and Transitions - Celebrating the Years (cont'd)*



*70 years of experience at this table:*

Liz Arsenault (25 yrs), Jane Corey, Tejas Mehta (20 yrs) and Nancy Whitman (25 yrs).



*135 years of experience in this line:*

Bernie Kennedy (30 yrs), Christine Boncoddò (20 yrs), Olga Augustus (25 yrs), Rose Stanley (30 yrs), and Juline Horan (30 yrs)



*85 years of experience at this table:*

Christine Boncoddò (20 yrs), Tim Parritt, Rose Stanley (30 yrs), Peter Cousins, Debra Morris (35 yrs) and Donna Hallett.



## Milestones and Transitions (cont'd)



### Farewell, Nancy Whitman

Nancy Whitman, Senior Technologist at 1101 Beacon St. is retiring this month after 40 years of x-ray service and we asked her to share key points of her history that have contributed to her illustrious years at BIDMC.

In my early teens I read a book, *Beatrice Perry, X-Ray Technician*, and after reading it I knew that was what I wanted to be but my father told me that if I did that, I had to do it on my own (he wanted me to be a comptometer operator). I applied at Methodist Hospital in Indianapolis, IN and was accepted into their program. I started training 3 weeks before I graduated from high school and was in the program for 15 months. I then spent another year doing an internship at St John Hospital in Anderson, IN during which time I received my registration.

I came to Boston in 1966 with a position at University Hospital but when I got married, I had to spend two years in Manhattan while my husband finished his residency. I returned to University Hospital in 1970 where I went on to become assistant chief technologist.



"I needed all the help I could get when I transcribed!"

By 1974 I wanted to change to private office rather hospital patient care and working at 1101 Beacon St. gave me exactly what I wanted. The work flow and the variety of duties were vastly different from what I had been doing. I would do any and everything from

transcribing reports to barium enemas to billing for the exams.

In 1974, 1101 was known as Radiology Group of Greater Boston and it was owned by three radiologists: Dr. B. Levine (retired, 1980), Dr. R. Harlow Hermanson (retired, 1987) and Dr. Seymour Shalek who continued until he was approached by The Radiologic Foundation headed by Dr. Sven Paulin and Jay Ballofett. Dr. Paulin and Jay met to discuss the purchase of the practice and on April 1, 1988 we became **Beth Israel Radiology** and employees of the Radiology Foundation.

We maintained wonderful relationships between the many referring physician practices in the building; one of the physicians on the 2nd floor and I shared the same birthday so we would celebrate the day annually. **He retired last year and the stories of his retirement have encouraged me to take the same step.**



2011 - Halloween at 1101 Beacon St.: Lobster - Cheryl Egan, Technologist; Rabbit - Angela Bosque, Tech Assistant; Angel - Josefina Valera, Practice Representative; Mardi Gras figure (Center) - Olga Augustus, Technologist/Breast Imaging Manager; Bumble Bee - Vicki Albano, Technologist; Nancy Whitman, Technologist - Cat; (front row) Nun - Audris Ruiz, Practice Representative and Pirate - Andrea Garvin, Sonographer.

1101 could never let a holiday go by with celebrating it, especially Halloween where some of us would go through the building and trick or treat. Many patients would come into office just to see the costumes that we had chosen each year.

I used to look forward to having a snow storm that I knew would affect the commute as I packed my bag and would have a sleepover; at times others in the building would also enjoy the storm with me. One morning I even helped shovel the entrance to the parking garage in the early morning so my coworkers could get in to park.

#### My professional affiliations over the years included:

I started out in 1974 completing the office of Secretary of the MSRT [Massachusetts Society of Radiologic Technologists] and was elected for another term.

In 1975, I got involved with the New England Conference of Radiologic Technologists beginning with the office of Treasurer and then continued to become President-Elect, President, Board Member and Chairman of the Board. I continued to be General Conference Co-chair for two conferences and also served on other committees.

I had the pleasure for serving as Regional Director for the American Society of Radiologic Technologists (ASRT) between February 1977 until July 1980. I was elected to the position in 1983 and continued officially thru July 1987 when the ASRT became a house of delegates and we were advising for the first year the house was seated.

In 2005, I also took on the role of official wine taster and started advising my co-workers on luscious wines for off-hour appreciation!

As much as I am making wonderful plans for my days ahead there will be many aspects of the last 40 years at 1101 that I will miss. My next steps include: travels to many new places. I also plan to continue my Wine blending and look forward to adding many more bottles to my collection!

DEPARTMENTAL NEWS: Surprise 70th Birthday Party for Colin McArdle

HAPPY 70<sup>TH</sup>



The instructions were to wear a blue shirt and to meet in the Reisman Lecture Hall on Tues., April 15th for a surprise 70th birthday party for Dr. Colin McArdle to be hosted by Colin's wife Chris and Dr. Debbie Levine. (Dr. McArdle also celebrates nearly 40 years at BIDMC, having trained in Edinburgh Scotland before joining what was then Beth Israel Hospital in 1975.) The serving crew included Debbie Levine, her husband Alex, Colin's wife Chris and their daughter Hannah - who also made the cake, a marvelous Pavlova! A good time was had by all, Colin seemed to enjoy the presents, and didn't notice how many people wore the same clothes as he did.

**KUDOS** - Each month, we share the positive feedback we receive about staff members and ask you to join us in congratulating them; as always, we are especially proud to acknowledge an unprecedented constellation of staff for providing outstanding care and service!



### Breast Imaging

- **Deborah Humphries** is an active participant in the Radiology Action Planning Committee. She is an enthusiastic cheerleader bringing the "Radiology Wants to Know" campaign to the department and provides ongoing support and encouragement to keep this initiative active. Deb also facilitated the creation of the Breast Imaging "Feedback Queen Award".
- In recognition of the ease in which **Constance Mulcahy** facilitated the Attending's request to perform a second Breast needle localization procedure on the same patient that you had been part of the team involved in her Breast ultrasound guided needle localization. It was upon viewing the confirmatory post procedure Mammography images that the Attending decided that an additional procedure was needed, knowing that the scheduled Operating Room time was fast approaching and that the position of this lesion would require that the patient stand for this procedure, your excellent customer service and technical skill allowed for the patient's fear to be calmed and under the circumstance's allowed her to be at ease with this sudden turn of events. Not only was this a successful event for the patient, your careful coordination and team work with the Attending ensured that the patient was able to keep her scheduled Operating Room time. Thank you.
- **Elena Morozov** In recognition of your continued excellence in providing great customer service to our patients. During a recent scheduling interaction with pt D.E where you had to reach deep and rally all your resources of empathy and thoughtfulness in addressing her many spoken and unspoken concerns and after multiple further conversations initiated by the patient your continued patience and calm delivery as to the procedure steps allowed her to be comfortable enough to comply in a timely manner with the imaging recommendations. Thank you.

### CT

- I wanted to extend my sincere thanks to your staff for their assistance with a critically ill patient last evening. **Vinny Vitale** came to the SICU, waited patiently for the team to stabilize the patient enough to be able to be positioned for the portable head CT, and then performed the scan under very stressful conditions. The SICU staff and the CT staff have always had a great relationship. We are all very much a part of the same team, and appreciate the care and consideration your team gives to our staff as well as our patients on a daily basis. – *Suzanne Joyner, RN, BSN Nurse Manager Surgical ICU*
- A patient coming through the ED called me to recognize **Lori Maiorana** and **Linda Benasky** technologists in the CT Department for the excellent care and professionalism that was provided. She stated she had been a patient at BI many times and never has she been treat so well by a team then what she experienced in CT!

### Dx

- **Isaac Dube** provided training for staff on our new dental equipment. He ensured the weekend staff received training. He is the go-to person for this system.
- On more than one occasion **Joe Eloi** has stepped in to cover the evening shift in the ED – ensuring we have transport coverage for ED patients during a busy time of day. He worked hard and minimized delays.
- Dr. Paul Sprin commented: "I am writing to compliment weekend supervisor **Alicia Zaske** on the prompt and professional way she handled my clinical and administrative requests this weekend, including her practice of confirming that she had completed these tasks by paging me. She is an excellent weekend supervisor.
- **Kevin Sands** has a can-do attitude, which is contagious. He juggled multiple projects (wireless install, CR install, DR portable NICU install) and met the challenge of keeping track of everything and keeping the projects moving forward.



## MRI

- I would like to recommend **Ben Jenkins** for a spot bonus for his dependability and adaptability. Ben works a swing shift, he is always on time. When Ben arrives, he

can be covering Shapiro, Ansin or West. He is asked to move from scanner to scanner to cover lunches and at time take over a very difficult case and always replies with "sure, whatever you need me to do".

- I would like to recognize **Krista Wolforth** for always displaying a thoughtfulness, kind demeanor and temperament, no matter how difficult or stressful the day has been. Her peers have said "it's great having Krista as the senior tech, she stays calm, and collected throughout the day" Here's a quick quote recently submitted from a letter sent in by a patient. "She's an absolute pleasure to be around and ever so soothing during time of stress. During a recent breast MR procedure I was extremely claustrophobic and stressed about the procedure. I also had difficulty fitting in the magnet and coil. Krista happened to be the technologist that scanned my MR breast study previously and it was comforting to see a familiar face. It was Krista's high level of customer service and it was the continuum of care she was able to provide for me, that ultimately made the difference".
- Mike Plum** constantly displays qualities in concordance to "Code of Conduct" and the values of BIDMC of a true professional. He's always kind, willing to help at the drop of the hat, tremendous willingness to learn, and ask questions when necessary.
- Karen Platcow** coordinated recycling for the West, and Ansin for the Pulse OX used on in-patients. The process was already in place at other units; however we didn't know about it or have a process in MRI. This past year the Medical Center was able to save \$97,000 throughout the campuses, so great work Karen for your help in implementing this process.
- I would like to recognize **Jeremy Stormann** for his tremendous effort, dedication and hard work in organizing the MR best in Practice, helping with newly required ACR implementation of the MR safety training for all non-MR personnel, protocols, training students, MR efficiency program and coordinating MRI appreciation events.
- During a recent walk through at Shapiro, security discovered a major leak at Shapiro. **Shuang Qi Zheng** was contacted at around 1pm and immediately came in to assess the situation. He stayed all night into the morning with maintenance and EVS staff to oversee the situation. The quick response from Shuang Qi prevented major damages do the MRI environment.

## NucMed & Magnetic Imaging (NMMI)

- Peggy Carr** handled the state radiation control inspection for all 3 campuses. The inspection happened when Dace Jansons the NucMed Manager was on vacation.
- Rich Mitchell** is always lightening the mood with jokes and stories and poems. He makes working fun.
- Meagan Harrington** loves working here. She is super enthusiastic and goes out of her way to be helpful to everyone. Her optimism is infectious and it's impossible to be grumpy when Meagan is around.

## Support Services

- Over the past several months, we have had staffing challenges at the reception staff due to call out, bad weather and planned vacation time. Throughout this period **Jermaine Christian** has demonstrated a commitment to service excellence by being proactive in helping out and being available when called upon without advanced notice. He goes about his daily task with no complaint or attitude. Jermaine is to be commended for his service excellence to both our customers and his teammates.
- Gail Johnson** was mentioned in a complimentary letter sent to Dr. Tabb that highlighted several staff members within the department for their thoughtfulness, efficiency and overall service excellence.
- Saliha Gardner** is this month's recipient of the Radiology Support Services Quality Spot on for Service Excellence Initiative Program.

## Happy Administrative Professionals Day!



Hosted by Carl Nickerson, BIDMC Radiology celebrated Administrative Professionals Day on Wed., April 26 with lunch and the gift of a crystal globe in recognition of the important role of our admin staff. "We think the world of you!"

**Mass Vein Care Center** has a completely new redesigned website! Our new website is a great resource for patients interested in treatment options for varicose and spider veins. Information is available on services provided by Mass Vein Care including initial clinical consult and procedures such as endovenous laser ablation and sclerotherapy. We now offer a Portuguese version of the content for the growing Brazilian population treated at the Center!

Don't let the pain and discomfort of vein disease stop you from living a healthy and active life.

Minimally invasive techniques that get you back to enjoying your favorite things in life.

**The website also promotes our Community affiliations such as:**

- Brookline Chamber of Commerce
- Newton/Needham Chamber of Commerce
- Member – The Merchant Committee for “The Street” – organized and led by WS Winer Development Group

**Future events include:**

- Participation Annual BIDMC Employee Health Fair – May 21
- Screening Day at Dedham Health and Athletic Complex
- Presentation to Fenway Community Health Center to the Medical Staff – July 24
- Newton/Needham Chamber Event at the Charles River YMCA (TBD)

**National Affiliations**

- o American College of Phlebology
- o Accredited by the American College of Radiology

**Community Outreach**

BIDMC staff members respond to Haiti Earth Quake

Joseph Smith Health Center Annual Food Drive – Our radiology practice contributes annually to the holiday food drive

Employee Health Fair – BIDMC active participant for the past four years consecutively

Community Street Fair – raising awareness through breast cancer mammography screenings, bone density and body composition, venous disease (varicose and spider veins)

Dedham Health and Athletic Complex Community Lecture Series 2012/2013 Participants:

1. Breast Cancer Awareness
2. Colon Cancer Screenings
3. Uterine Fibroid Embolization – Alternative to surgical treatment
4. Vascular Disease and non-working veins
5. Diabetes Support Group– guest speakers – treatment options for venous insufficiency and the role of exercise in the treatment plan for diabetic patients

**Well Coin Program**

At Mass Vein Care our primary goal for our patients is to live a healthy and active life. Now it is time to advocate the same for our employees.

In a continuing effort to promote good health we now offer a free membership to Well Coin! Well coin is a web based health program with an available app that provides and records health associated activities and growth. Using a point system and the award of points for good health it acts as a guide and motivation for our employees and their step towards creating a well rounded and grounded healthy lifestyle. Well coins may be redeemed for rewards ranging from grocery gift cards to gym memberships, tickets, and more.

**Mass Vein Care asks their employees to join them in this new venture and start living a happy, healthy, and rewarding 2014!**

**Radiology in the Community: Hearts of Hope**

*It began with an irresistible invitation from Dawn Federman, Linda Lintz and Lois Gilden...*

Linda, Lois and I were thinking of way that we could extend our kindness and compassion, not only during the holidays when we give to Rosie's Place, but also during a time when we all have recovered from the winter blues and are ready to get out and get together in friendship and in cause. I stumbled across a volunteer initiative called "Hearts of Hope" where volunteers paint their own wonderful ceramic hearts, as a token of caring and compassion. With each heart is attached an inspirational message to whomever receives it. Once painted, these hearts can go anywhere in or outside the hospital (on patient floors, Hematology/Oncology, Windows of Hope, Boston Strong Organization, the Martin Richard Foundation, 911 families, Firefighters association and Katrina Families, etc). I am especially interested in this project not only because I have a love for art and have always loved doing arts and crafts, but also the impact that this could have – these hearts are really wonderful little tokens to share with those who are going through an illness or a difficult time, and they are all personalized by someone really special, YOU! It's a great reminder that there are people who really care and are praying for a person's recovery.

- Dawn

Thank you all for coming on Apr. 11 to support the Hearts of Hope Project. A big thank you to **Cynthia Webster** for organizing the lunch, **Michael Larson** for staying around the entire time to get pictures of all of us and to coach us through, and to **Lois Gilden** for the use of the room and for helping to clean and set up. We are a team! A really great job by all. The hearts look beautiful! Thanks again for being there and supporting this endeavor!

Best,

-Dawn



Above L to R: Lois Gilden, Cynthia Webster, Linda Lintz and Katie Armstrong



Dawn Federman

*Thanks a million for knowing about Hearts for Hope, & getting the ball rolling. Also thanks to everyone who made it such a fun project & for making it happen. Fun, good company & a good deed—what could be better?*

- Linda Lintz



*I really had an amazing time with such a great group of people!*

- Scot Morrison

*Thank you Dawn and co. for arranging such a creative and fun way to "Pay It Forward"*

- Donna Wolfe



Diane Valentine



Tara Bun



Katie Armstrong

For those who would like to participate in Hearts of Hope, note that a second lunchtime workshop will be held on Friday, May 9th. Please contact Dawn Federman (7-2448) for more information or to reserve a spot!

## Radiology in the Community & PUBLICATION CALL OUT: Ron Eisenberg Hits a Double!

In addition to authoring numerous radiology papers, textbooks and other publications in both academic medicine and for the general public, did you know that Ronald L. Eisenberg also has a doctorate in Jewish Studies and has built a sterling reputation as a Jewish Studies scholar, acting as scholar-in-residence at Tifferet Israel Synagogue in San Diego and Vilna Shul in Boston? In March 2014, he completed the third installment of his “Essential Figures” series: **Essential Figures in Jewish Scholarship**. The other titles are: *Essential Figures in the Bible* and *Essential Figures in the Talmud*.

The publication of *Essential Figures in Jewish Scholarship* completes a trilogy of books describing major individuals in the almost 4,000 years of Jewish history from Abraham to the present day. I began the process several years ago, when searching for information about a biblical personality. Surprisingly, this was not an easy task. There were encyclopedic volumes giving detailed descriptions of the nearly 3,000 people named in the Bible, or shorter books providing only brief identifications. This led me to develop *Essential Figures in the Bible* to present manageable amounts of information about more than 250 individuals that I chose as most important to an understanding of the text. My goal was to make the book thorough, yet efficient, accessible, and easy to read. Where appropriate, I selected supplementary material from other major Jewish texts, such as the Talmud and Midrash. The next step was to take a similar approach to more than 250 *Essential Figures in the Talmud*, out of the 2,000 Rabbis who developed Jewish thought during its formative period through 600 CE. The third volume in the series, *Essential Figures in Jewish Scholarship*, continues the historical saga, spotlighting nearly 400 major personalities who were critical in transmitting and further interpreting rabbinic Judaism to the present time.

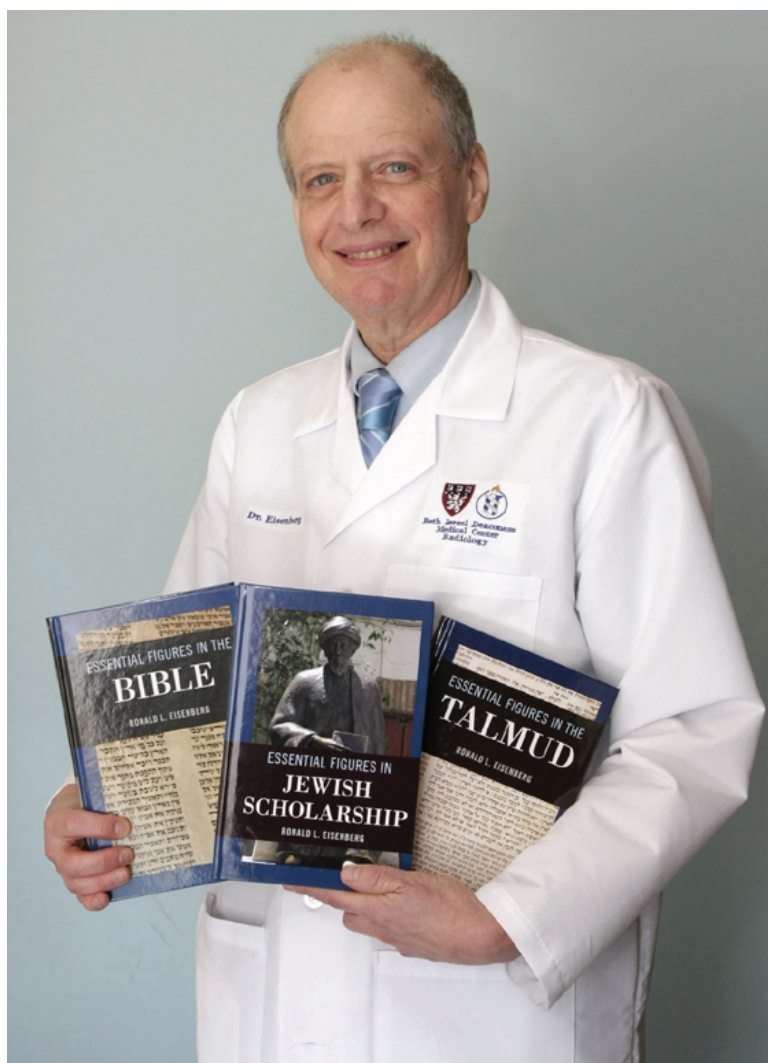
Combining material from numerous sources into an easy-to-read format has been the major approach to almost everything I have written, both in radiology and Jewish studies. All six of my other books in Jewish studies, such as the Jewish Publication Society Guide to Jewish Traditions, *The 613 Mitzvot*, *What The Rabbis Said*, and *The Streets of Jerusalem*, have been written to find the answers to my own questions.

– Ron Eisenberg

*The following is from Amazon.com:*

Despite the fact that scholars of the post-Talmudic era have been of great importance to the continued interpretation of religious texts for more than a millennium, they are typically not given as much attention as their Talmudic-era predecessors. *Essential Figures in Jewish Scholarship* compiles thorough but manageable entries on the figures most vital to an understanding the scholarship of the post-Talmudic era.

In this valuable reference, Dr. Ronald L. Eisenberg catalogs and explains the importance of more than two hundred figures who are most vital to an understanding of the teachings of the post-Talmudic rabbis. For these figures, who fall into the categories of Geonim (rabbis writing from 600–1100), Rishonim (1100–1500), and Acharonim (1500–present day), Eisenberg provides summaries of major teachings and scholarly contributions, as well as biographical information and illustrative quotations from relevant writings.



Also coming in June 2014 on Amazon: **Neuroradiology Signs** by Mai-Lan Ho (recent BIDMC Resident and Neuroradiology Fellow) and Ronald L. Eisenberg.

Current Commentary

## Fetal Imaging

Executive Summary of a Joint *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, Society for Maternal-Fetal Medicine, American Institute of Ultrasound in Medicine, American College of Obstetricians and Gynecologists, American College of Radiology, Society for Pediatric Radiology, and Society of Radiologists in Ultrasound Fetal Imaging Workshop

Uma M. Reddy, MD, MPH, Alfred Z. Abuhamad, MD, Deborah Levine, MD, and George R. Saade, MD, for the Fetal Imaging Workshop Invited Participants\*

Given that practice variation exists in the frequency and performance of ultrasound and magnetic resonance imaging (MRI) in pregnancy, the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development hosted a workshop to address indications for ultrasound and MRI in pregnancy, to discuss when and how often these studies should be performed, to consider recommendations for optimizing yield and cost effectiveness, and to identify research opportunities. This article is the executive summary of the workshop.

(*Obstet Gynecol* 2014;123:1070–82)

DOI: 10.1097/AOG.0000000000000245

\*For a list of the Fetal Imaging Workshop Invited Participants, see the Appendix.

From the Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, Maryland; Eastern Virginia Medical School, Norfolk, Virginia; Beth Israel Deaconess Medical Center, Boston, Massachusetts; and the University of Texas Medical Branch at Galveston, Galveston, Texas.

This article is being published concurrently in the May 2014 issue (Vol. 210, No. 5) of the American Journal of Obstetrics and Gynecology and the May 2014 issue (Vol 33, No. 5) of the Journal of Ultrasound in Medicine.

The findings and conclusions in this report are those of the authors and do not necessarily represent the views of the National Institutes of Health or the Department of Health and Human Services.

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The authors did not report any potential conflicts of interest.

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Since the advent of fetal ultrasonography in the 1960s, the average number of obstetric ultrasonographies per pregnancy has gradually increased. Furthermore, significant practice variation exists in the frequency and performance of ultrasonography in pregnancy. Innovations in imaging, such as magnetic resonance imaging (MRI), have added to the available tests for fetal evaluation.

To synthesize the available information regarding the role of ultrasonography and MRI in the diagnosis of fetal conditions and management of pregnancy, the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, Society for Maternal-Fetal Medicine, American Institute of Ultrasound in Medicine, American College of Obstetricians and Gynecologists, American College of Radiology, Society for Pediatric Radiology, and Society of Radiologists in Ultrasound convened a workshop December 13–14, 2012. Workshop participants reviewed indications for ultrasonography and MRI in pregnancy, discussed when and how often these imaging studies should be performed, considered recommendations on the need for additional imaging in certain conditions and in specific patient populations to optimize yield and cost effectiveness, and identified future research opportunities.

### FETAL ULTRASOUND

National guidelines regarding obstetric ultrasonography published by various organizations<sup>1–3</sup> highlight the



**2014 BIDMC Radiology Publications [New Citations in Blue\*].** A PubMed search for new BIDMC publications is made each month; however, if we miss your paper, please send the reference to [dwolfe@bidmc.harvard.edu](mailto:dwolfe@bidmc.harvard.edu).

Note that publications do not always appear in Pubmed in the same month they are actually published and publications listing an Epub date may be updated in the new year, thus their paper publication will appear in 2014. In these cases, the EPUB date is **highlighted**.\*

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