



# SCBT-MR **Spotlight**

SCBT-MR Quarterly Newsletter

Editors: SCBT-MR Communications Committee

Fall | 2013

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established to promote collegiality in the field of radiology and foster and encourage communication and interchange among the national radiological societies. The committee evaluates and makes recommendations on problems and areas of concern as identified by the member societies or as brought forth at the ISC. The topic of the ISC this year was "Radiology Journals in Transition." The discussion was led by Dr. Gerald Dodd, III, and the following material is excerpted from Dr. Dodd's conference summary. Some of the questions we addressed were:

- What is the future of radiology journals?
- Are they really worth it?
- How many do we need?
- Will print survive?
- What is the future financial model?
- Should all journals be open source?
- What is the best digital format?
- How do you find reviewers and why do they do it?
- Is blinded review optimal?

## President's Address



Dear Society Members and Fellows,

I recently returned from Big Sky Montana, where Michele Wittling and I represented the SCBTMR at the Intersociety Summer Conference (ISC), hosted by the American College of Radiology (ACR).

The ISC serves as a meeting of the societies that comprise the Intersociety Committee; this is a

Print to electronic migration appears to be inevitable, and electronic publishing has opened up new paradigms. For example, publication of an article is now becoming the beginning of an interactive and collaborative discussion of research findings, rather the end of a process. Financial trends predict the demise of the traditional subscription model, and new financial models will be necessary for electronic journals, particularly for open access journals which are increasing in number. With regard to the peer review process, we discussed the need to (1) teach reviewing skills to our trainees, (2) implement systems to evaluate journal reviewers, and (3) reward reviewers with thanks, praise, recognition and CME credits.



The future of electronic publication will require items such as optimization on multiple platforms (e.g. tablets, smart phones, etc.), interactive formats, common interchangeable databases, standardized searchable nomenclature, personalized content delivered to users based on previous activity, and expansion into social media.

Obviously there are many issues to resolve with regard to the transition of radiology journals to newer, electronic formats, and the answers to our questions, as posed above, are as yet unclear.

I hope you all had a relaxing summer, and I hope to see you at the annual society meeting in Tucson!

Best wishes,  
Leslie Quint

## Response to: The Use of Computed Tomography in Pediatrics and the Associated Radiation Exposure and Estimated Cancer Risk

By Donald P. Frush, MD, Duke University

In a scientific investigation in JAMA Pediatrics first available in in May of this year which was based on pediatric CT scan data for four geographically diverse U.S. regions in an HMO research network, Miglioretti and colleagues concluded the following: (1) CT use has “increased sharply since 1996”, (2) radiation doses estimated from CT examinations “vary widely”, and (3) combining dose reduction strategies with reducing unnecessary examinations could “dramatically reduce future radiation-induced cancers” [1]. Taken together, what I am left to believe from this is that we continue to do more CT in children than is necessary, the dose delivered is indefensibly inconsistent, and that we don’t manage very well either the justification or optimization tenants of radiation protection for children. And ultimately, there is the question, “Does CT (or the level of radiation from CT), cause cancer”? I think the best approach is to look at facts, and base conclusions on these.

First, we know that radiation from medical imaging and the potential for cancer induction continues to be a very public topic, and the investigation by Miglioretti does provide some important and granular data contributing to our understanding of the practice patterns and dose estimations of CT in children. There are two other notable recent investigations that associate cancer with CT examinations performed in childhood, one from the UK [2] and the other from Australia [3]. So if we are to assume there is a significant risk, such numbers on how often we perform CT are valuable. The fact is that data in the JAMA article support existing work [4, 5] and, I would submit, also support the experience for those of us in pediatric imaging: pediatric CT had increased (for many justifiable reasons), and has recently declined. Indications are that the “sharp increase” is at this point in time, historical.

Second, there is variation in the dose estimations for CT in children. This is to be expected; the absence of variation in my opinion would be much more alarming. For example, with incomplete penetration of new technology such as iterative reconstruction, dose estimation ranges approaching an order of magnitude, at least for a while, should be pursued. Moreover, diagnostic reference levels in the U.S. are only beginning to be determined. Even without these, results from several academic pediatric imaging programs show that dose estimations from the current study for similar age/size groups substantially overlap [6, 7]. There are certainly opportunities, as authors demonstrate, to do things better, but a high dose doesn’t necessarily mean a wrong dose. Relatively high dose estimations are alarming only when we know all the facts, such as no clear justification for higher-than-necessary exposure.

Finally, the fact is whatever risk we assume (noting debates [8, 9]), or demonstrate for CT radiation, doing fewer exams and reducing exposures for each exam would reduce these risks. This is neither surprising, nor I would argue, fitting in the result section of this investigation, but rather is a point of discussion, a call, as authors did, for continued efforts. In this light, it is really how best to accomplish the balance between dose and quality where attention and efforts ought to be directed. These include establishing recommendations

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appropriate diagnostic quality for CT in children, simplifying scanning techniques, establishing diagnostic reference levels/ranges for radiation exposure, and minimizing examinations which are difficult to defend. I strongly believe that our continued provocation of our medical colleagues with the posture of “unnecessary examination” is adversarial (I think use of “unnecessary” is unnecessary here...) and dismissive of our often silent affirmation of exams (for many reasons, another interesting editorial in and of itself), and serves to point fingers rather than shake hands as we should be in order to develop consensus guidelines.

Does the radiation from CT scans cause cancer in children? Not a fact, difficult to say, and worth pursuing. The fact is that this statement and position in isolation are unnecessarily alarming. The often missing fact is the emphasis that CT saves many, many, many more lives than it potentially puts at risk. As imaging experts and professionals we have the inclusive responsibility to inform, providing all the facts, in our advocacy for those children we care for.

1. Miglioretti, D.L., L. Johnson, A. Williams, et al. *The use of computed tomography in pediatrics and the associated radiation exposure and estimated cancer risk.* JAMA Pediatrics 2013; 167(8): 700-7
2. Pearce, M.S., J.A. Salotti, M.P. Little, et al. *Radiation exposure from CT scans in childhood and subsequent risk of leukaemia and brain tumors: a retrospective cohort study.* Lancet 2012; 380(9840):499-505
3. Mathews JD, Forsythe AV, Zoe Brady Z, et al. *Cancer risk in 680 000 people exposed to computed tomography scans in childhood or adolescence: data linkage study of 11 million Australians,* BMJ 2013; 346: 1-18
4. Townsend BA, Callahan MJ, Zurakowski D, Taylor GA. *Has pediatric CT at Children’s hospitals reached its peak?* AJR 2010; 194:1194-1196
5. Levin DC, Rao VM, Parker L. *The Recent Downturn in Utilization of CT: The Start of a New Trend?* J Am Coll Radiol 2012; 9:795-8

6. Goske MJ, Coombs L, Coombs LP, et al. *Diagnostic reference ranges for pediatric abdominal CT.* Radiology 2013; 268(1):208-18
7. Thomas, K.E. and B. Wang, *Age-specific effective doses for pediatric MSCT examinations at a large children’s hospital using DLP conversion coefficients: a simple estimation method.* Pediatr Radiol 2008; 38(6):645-56
8. Hendee WR, O’Conner MK. *Radiation risks of medical imaging: separating fact from fancy.* Radiology 2012; 264:312-21
9. Boice JD. The Boice Report #14. NCRP. July 2013. [http://www.ncrponline.org/PDFs/BOICE-HPnews/14\\_UNSCLEAR\\_Vienna\\_July2013.pdf](http://www.ncrponline.org/PDFs/BOICE-HPnews/14_UNSCLEAR_Vienna_July2013.pdf), last accessed 9-15-13



## Annual Meeting 2013

@scbtmr

Follow SCBT-MR on Facebook and Twitter for up to the moment updates of 2013 Annual Meeting and

### WIN a \$10 STARBUCKS GIFTCARD

Participate on Facebook or Twitter and be entered into these drawings:

- **Sunday Gift card drawing:** submit a question from a session that you didn’t get answered
- **Monday Gift card drawing:** Upload a photo of some of your favorite meeting moments
- **Tuesday Gift card drawing:** What did you do on your Monday afternoon off?
- **Wednesday Gift card drawing:** Wednesday morning Gift card drawing: Let us know what session you attended that you loved!

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## Annual Meeting 2013

SCBT-MR's 2013 Annual Meeting is right around the corner. If you haven't yet registered, it's NOT too late. For those who are attending, mark your meeting calendar with the following events:

- **Scientific Session**  
*Saturday, October 12 - 1:00 - 5:00 pm - Presidio Ballroom*  
Some of the field's top research presented for Members-ONLY. Fellow Members, make sure to come cast your vote for the 2013 Lauterbur, Hounsfield, and Young Investigator Awardees.
- **Scientific Research Posters**  
*Saturday, October 12 - Tuesday, October 15*  
Turquoise Ballroom  
View over 55 educational and scientific exhibits on all areas of research.
- **Roundtables & Workshops**  
*Every Morning of the Meeting - 7:00 - 7:45 am*  
Meet face-to-face with colleagues about issues pertinent to you and your practice; get answers to questions or provide your expertise.
- **Meeting Lectures**  
*Every day of the Meeting*  
Expert Faculty speaking on issues relevant to you. We are jammed packed with great, relevant content, don't miss it.
- **Scientific Poster Session**  
*Sunday, October 13 - 1:30 - 2:30 pm - Presidio Ballroom*  
Research presentations continue as the top 10 poster submissions present highlights of their work.
- **Welcome Reception**  
*Sunday, October 13 - 5:00 - 6:30 pm - Exhibit Hall*  
Let us welcome you to Tucson and to SCBT-MR's 2013 Meeting. Catch up with colleagues, view the newest technology from vendors, and eat, drink, and be merry. Registered guests of registrants are welcome.
- **Annual Business Meeting (RSVPed registrants)**  
*Monday, October 14 - 12:00 - 1:00 pm*  
Come hear the latest news and updates about the society, its leadership and future plans.

## Prizes

### Annual Meeting 2013

- ▶ Drawings to win an **iPAD MINI** - Visit all our vendors in the Exhibit Hall, get their secret code and turn your pass in at the registration desk by 9:30 Tuesday to place your name in the drawing.
- ▶ Drawings for 2 chances to win a **book from Lippincott Williams & Wilkins** - Value up to **\$500.00 per book**

BOTH DRAWING will take place in the Exhibit Hall during the morning break on Tuesday.

*You must be present to be a prize winner.*

- **Fellows Meeting**  
*Monday, October 14 - 1:00 - 2:00 pm*  
If you are a FSCBTMR, plan join us for the Annual Fellows Meeting. Your input and expertise is greatly appreciated.
- **Image Interpretation Panel Team Competition**  
*Tuesday, October 15 - 4:00 - 5:00 pm*  
Back by popular demand - join Moderator Dr. Joel Platt as Team 1 and Team 2 compete for image interpretation supremacy. Teams include Drs. Philip Costello, Ella Kazerooni, Erik Paulson, Aarti Sekhar, Dushyant Sahani, Brian Herts, Ruedi Thoeni, and Priya Bhosale. Come root for your favorite team!
- **Don't let this happen to you cases**  
Have you ever had one of those cases that you wish you could do over? So do your colleagues.



Moderated by Dr. Geoffrey Rubin, come hear Drs. Dennis Foley, Garry Gold, Brian Herts, Diego Martin, Koenraad Morteale, Rendon Nelson, Joel Platt, Ruedi Thoeni, and more talk about a case they wish they could do over. Vote for your favorite case!

**Committee Meetings**

If you are on a SCBT-MR committee, meetings will be taking place at various times throughout the meeting. If you aren't on a committee and would like to join for 2013-14, let us know. Come to the registration desk and sign-up to serve on a committee of interest.

**Dine Around!** All registered attendees staying at the Hilton Tucson El Conquistador are welcome to experience the best of Tucson's cuisine on Monday evening, October 14<sup>th</sup>.



- Transportation is provided to a variety of outstanding Tucson restaurants over a four-hour period. [Click here](#) for a list of restaurants participating.

We look forward to seeing you in Tucson!

## Special Activities

In addition to the invaluable imaging content offered at the SCBT-MR 2013 Annual Meeting be sure to take advantage of the following networking and social events:

**Margarita Party!** Join faculty members and other attendees in the Poolside Courtyard on Tuesday, October 15th from 5:30pm - 6:30pm.



- Network while enjoying a margarita and light refreshments by the pool in this breathtaking setting in the foothills of the Santa Catalina Mountains.

**Afternoon Off for Registrants!** Enjoy a rare, lecture-free afternoon on Monday, October 14th.

- Take the afternoon off to explore Tucson and the surrounding area with friends and family - educational sessions end at noon.
- Choose from three nearby championship golf courses, or play a tennis match into the evening on one of 31 floodlit tennis courts.
- Plunge into your choice of four swimming pools with a waterslide, children's pool, sauna, and hot and cold jetted tubs.
- Enjoy the southwestern sun on the pool deck and cool down with a tropical drink from Desert Springs Café poolside bar.

### Meeting Sponsors & Exhibitors

QUALITY IS OUR IMAGE

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## Update from the Academy of Radiology Research

The Academy of Radiology Research's mission is to create and maintain a supportive political environment for imaging research. Through education and advocacy, we raise awareness of the value of imaging research and its impact on patient care. This awareness assists in our efforts to increase the federal government's imaging research budget.

We are pleased to have the Society of Computed Body Tomography & Magnetic Resonance (SCBT-MR) as one of our members. Like the SCBT-MR, all members of the Academy are imaging societies with their own independent mission and goals. However, the Academy is able to work together to advance the interests of the entire imaging research community. These partnerships are more important now than ever before due to the current situation in Washington.

Sequestration officially took effect on March 1, 2013, and this 5.3% cut has already started to impact the payline at the National Institutes of Health (NIH). Year two of sequestration, which is scheduled to start in January 2014, will result in an even bigger cut to the NIH of 7.2%. This is only the beginning of a planned ten-year schedule of reductions, and although the percentage of research at the NIH that involves imaging continues to grow, the headwinds of sequestration are strong.

Fortunately, however, support for the NIH is a rare example of bipartisan agreement, and it is possible that Congress will restore funding for the Institutes. The Academy continues to work toward this goal by meeting on a frequent basis with Members of Congress and congressional staff. Many of these congressional offices also attended our fourth annual Medical Technology Event on Capitol Hill, which brought together radiologists, patient advocates, and industry representatives to speak about the importance of imaging research. The SCBT-MR's membership in the Academy gives you the opportunity to collaborate with all of these stakeholders.

You can also play a role in ensuring that Congress funds imaging research at the NIH. On our Take Action website, <http://action.imagingcoalition.org>,

you can send emails to your Members of Congress in support of imaging research. These emails take less than a minute to send, but they have a large impact on Capitol Hill because the more letters Members of Congress receive, the more likely they are to support the NIH. So far the Academy's grassroots mobilization has resulted in over 6,000 letters to more than 270 Members of Congress. But with the SCBT-MR's help, we can reach even more Members.

To learn more about the Academy's events and initiatives, please see our 2013 Annual Report. You can also contact the Academy at (202) 347-5872 or [rcruea@acadrad.org](mailto:rcruea@acadrad.org).

Thank you again for your support and participation. We look forward to continuing to work closely with the SCBT-MR.

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## SCBT-MR ANNUAL MEETING 2014



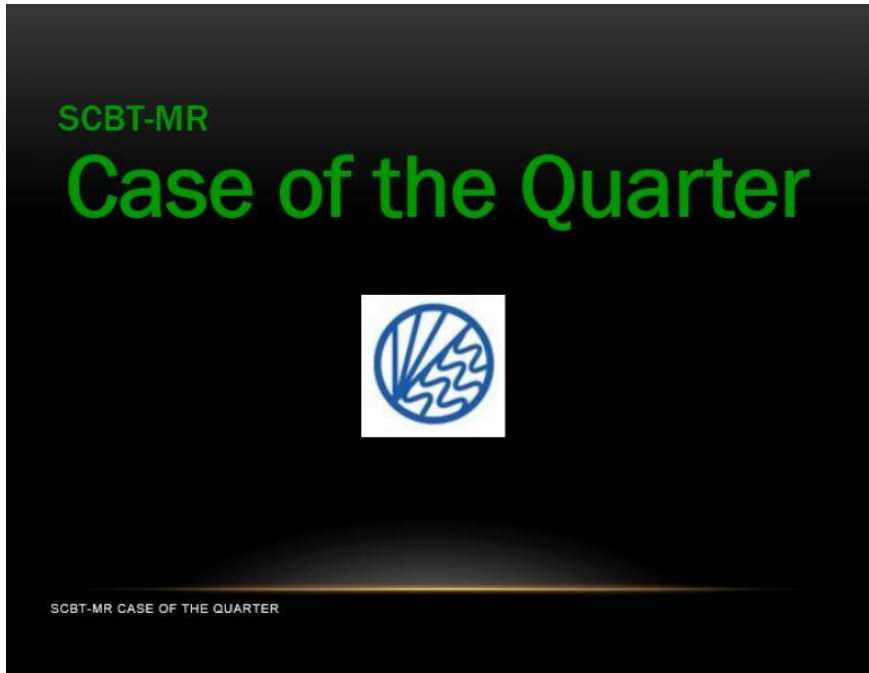
### MARK YOUR CALENDARS

Ritz-Carlton New Orleans  
September 26 – October 1, 2014

[Sign up here to be notified when registration opens](#)



## Case of the Quarter



**SEPTEMBER 2013**

Click on [Link Above](#) to view.

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SCBT-MR  
Member News

Congratulations to the following SCBT-MR Members who were named as a **2013 Minnies Semi-Finalist**:

**Most Influential Radiology Researcher**

Dr. U. Joseph Schoepf, Medical University of South Carolina

**Most Effective Radiology Educator**

Dr. Geoffrey D. Rubin, Duke University  
Dr. Michael Steigner, Brigham and Women's Hospital

**SEND US YOUR MEMBER NEWS!**



**PHYSICS TIP of the DAY**

CT Dose Index (CTDI) is not a direct measurement of patient dose but rather the dose to a 16-cm or 32-cm cylindrical plastic phantom. CTDIvol is the average dose over the x-, y- and z-axis of the phantom. The displayed CTDIvol value on a CT console underestimates dose to most patients. AAPM report 204 recently reported conversion factors that may be used to more accurately estimate the dose to a patient (the so-called 'size specific dose estimate' or SSDE).

**Reference:** Size-Specific Dose Estimates (SSDE) in Pediatric and Adult Body CT Examinations, American Association of Physicists in Medicine Task Group Report 204, 2011.

[http://www.aapm.org/pubs/reports/RPT\\_204.pdf](http://www.aapm.org/pubs/reports/RPT_204.pdf)

**SCBT-MR**

**Website Resources:**

- ▶ Ask the Experts - Click [Ask the Experts](#) to submit a question
- ▶ Ask the Physicist - Click [Ask the Physicist](#) to submit a question
- ▶ Member News - Have you been promoted, moved to a new position, etc. - help us to inform your colleagues in the field, submit your news here: [Member News](#)
- ▶ Post your Fellowship on our new Directory: Post your program's body/cross-sectional fellowship on our online directory by clicking here [Submit a Fellowship](#)
- ▶ News Feed - RSS feeds of the latest news. [www.scbtmr.org](http://www.scbtmr.org)
- ▶ Protocols - View over 50 CT and MRI protocols submitted online by SCBT-MR members and meeting faculty. [View](#)
- ▶ 2012 Annual Meeting Lectures - provided by Meetings-by-Mail. Come view 10 lecture videos from the 2012 Meeting. [View](#)

**SCBT-MR's Online Fellowship Directory**

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Program Directors

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# Abstracts at the Annual Meeting

Below is a list of abstracts being presented at this year's Annual Meeting:

## SCIENTIFIC SESSION - Saturday, October 12

**Dual-Energy First-Pass CT for the Assessment of the Myocardial Blood Supply: Do We Need Rest, Stress, and Delayed Acquisition? A Comparison with SPECT**

Medical University of South Carolina  
*Carlo Nicola De Cecco, Felix G. Meinel, Justin R. Silverman, John W. Nance Jr, Philip Costello, Joseph Schoepf*

**Reduced Radiation Dose and Improved Diagnostic Image Quality at Cardiovascular CT Angiography by Automated, Individualized X-Ray Tube Voltage Selection: Intra-Individual Comparisons**

Medical University of South Carolina  
*Aleksander W. Krazinski, BA; Justin R. Silverman, BA; Christian Canstein, MS; Robin L. Brothers, RT; Lucas L. Geyer, MD; Philip Costello, MD; U. Joseph Schoepf, MD*

**Effect of Body Size on Radiation Exposure and Noise Using a Non-ECG-assisted High-pitch Acquisition for Aortic CTA**

Duke University  
*Achille Mileto, MD; Daniele Marin, MD; Juan Carlos Ramirez Giraldo, PhD; Lynne M Hurwitz, MD; Rendon C Nelson, MD*

**Dual Energy CT in Hypervascular Liver Lesions: Selection of the Optimal Monochromatic Energy Level with Gemstone Spectral Imaging**

Duke University  
*Achille Mileto, MD; Daniele Marin, MD; Ehsan Samei, PhD; Kingshuk Roy Choudhury, PhD Rendon C Nelson, MD*

**Development of post-processing software to diagnose and stage HCV-induced cirrhosis by quantification of liver surface nodularity on routine CT images.**

University of Mississippi Medical Center  
*Andrew Smith MD PhD1, Jason Bryan MS2, Amit Vasanji PhD2, Cody Branch BS1, Richard Hosch MD1, Haowei Zhang MD PhD1, Charu Subramony MD MBBS3, Michael Griswold PhD4, Xu Zhang PhD4.*

**CT Dose Variability For Patients Undergoing Repeat Identical CT Scans: A Retrospective Analysis Of 2606 Patients Undergoing 12,632 CT scans.**

Duke University Medical Center  
*Douglas G. Larson MD, Daniel T. Boll MD, Tracy Jaffe MD, Olav Christianson PhD, Rendon C. Nelson MD*

**Quantitative Measurement of Pulmonary Biomechanics with MRI Lung Volumetry**

University of Arizona  
*J R Costello MD PhD, E Schreibmann PhD, F Cortopassi PT, P Sharma PhD, Isabel Oliva MD, K Salman MD, S Chundru MBBS, H Arif MBBS, T Fox PhD, B Kalb MD, and D R Martin MD PhD*

**Validation of image registration for motion-correction in 3D dynamic contrast enhanced liver MRI; impact on temporally subtracted images**

University of Washington  
*Dinesh Sundarakumar MD Jeffery Maki MD, PhD Sherif Osman MD Gregory Wilson PhD*

**Accuracy of Multi-echo Magnitude-based MRI (M-MRI) for Estimation of Hepatic Proton Density Fat Fraction (PDFF) in Children**

University of California, San Diego  
*Kevin A. Zand MD, Amol Shah MAS, Jessica Lam BS, Gavin Hamilton PhD, Tanya Wolfson MS, Elhamy R. Heba, BMBCh, Joshua Chen BS, Jonathan C. Hooker BS, Anthony C. Gamst PhD, Michael S. Middleton MD PhD, Jeffrey B. Schwimmer MD, Claude B. Sirlin MD*

**Dose-Toxicity Relationship of Gadoxetate Disodium and Transient Post-Injection Dyspnea**

University of Michigan Health System  
*Matthew S. Davenport, M.D.-1 Mustafa R. Bashir, M.D.-4 Jason A. Pietryga, MD-4 Joseph T. Weber, M.D., F.C.C.P.-2 Shokoufeh Khalatbari, M.S.-3 Hero K. Hussain, M.D.-1*



**Repeatability of Major Diagnostic Features and Scoring Systems for Hepatocellular Carcinoma Using Dynamic Contrast-Enhanced Magnetic Resonance Imaging**

University of Michigan Health System  
*Matthew S. Davenport M.D., Shokoufeh Khalatbari M.S., Peter S.C. Liu M.D., Katherine E. Maturen M.D., Ravi K. Kaza M.D., Ashish P. Wasnik M.D., Mahmoud M. Al-Hawary M.D., Daniel I. Glazer M.D., Erica Stein M.D., Jeet Patel M.D., Deepak K. Somashekar M.D.,*

**Texture Analysis as a Predictive and Prognostic Biomarker of Tumoral Response to Neoadjuvant Chemoradiotherapy in Rectal Cancer Patients Studied with 3T MR**

Medical University of South Carolina  
*Carlo Nicola De Cecco, Balaji Ganeshan, Maria Ciolina, Joseph Schoepf, Philip Costello, Andrea Laghi*

**Blood oxygen level-dependent liver MRI: can it predict microvascular invasion in HCC?**

UHN  
*Kartik S. Jhaveri MD1, Sean P. Cleary MD, FRCPC, Sandra Fischer MD, FRCPC, Masoom A. Haider MD, FRCPC, Vivek Pargoankar MD, Karim Khalidi MD, Hadas Moshonov PhD, Steven Gallinger MD, FRCPC*

**Mapping of Prostate Cancer Using Diffusion Tensor Magnetic Resonance Tractography: A Preliminary Study**

Massachusetts General Hospital  
*S S Hedgire, MD, A Tonyushkin, PhD; A Kiruluta, M. Phil., PhD; P F Hahn, MD, PhD; S Tabatabaei, MD; M G Harisinghani, MD*

**Evaluation of renal T2\* changes on MRI following administration of ferumoxytol as a T2\* contrast agent.**

Massachusetts General Hospital  
*Sandeep Hedgire MD Jason Gaglia MD Shaunagh McDermott MD Azadeh Elmi MD Abtahi Seyed Mahdi MD Mukesh Harisinghani MD*

**Noncontrast MRI versus contrast enhanced CT for evaluation of suspected acute appendicitis in patients <40 years: Cost considerations and impact on emergency department patient throughput.**

University of Arizona  
*Matthew Covington, M.D., Shannon Urbina, P.A., Elizabeth Krupinski, Ph.D., Lori Stolz, M.D., Diego Martin, M.D. Ph.D., Surya Chundru, M.D., James Costello, M.D. Ph.D., Bobby Kalb, M.D.*

**Diagnostic performance of noncontrast abdominopelvic MRI for the evaluation of suspected acute appendicitis in patients < 40 years old.**

University of Arizona  
*Matthew Covington, M.D., Shannon Urbina, P.A., Lori Stolz, M.D., Diego Martin, M.D. Ph.D., Dorothy Gilbertson, M.D., Sarah Desoky, M.D., Hina Arif, M.D., Bobby Kalb, M.D.*

**Reading Room Design in an Academic Institution: Minimizing Distraction and Understanding the Myth of Multi-tasking**

Emory University Hospital  
*Michael Osipow MD, Aarti Sekhar MD*

**Multi-reader detectability and contrast-to-noise (CNR) ratio of low contrast, low attenuation (LCLA) liver lesions using an integrated circuit CT detector: Effect of radiation dose, subject size and reconstruction method**

Cleveland Clinic  
*Ajit H. Goenka, MD, Brian R. Herts, MD, Frank F. Dong, PhD, Andrew N. Primak, PhD, Nancy A. Obuchowski, PhD, Wadih Karim, RT, Mark E. Baker, MD*



**ORAL POSTER SESSION - Sunday, October 13**

How appropriate are routine inpatient imaging requests? Comparing baseline inpatient imaging requests with the current ACR Appropriateness Criteria.

Henry Ford Hospital  
Andrew Moriarity, MD Safwan Halabi, MD Alex Essenmacher, BS Aaron Green, BS Bashir Hakim, BS

A Pattern Approach to Interpretation of Delayed Contrast Enhanced Cardiac MRI for Evaluation of Non-Ischemic Cardiomyopathies

Bridgeport Hospital - Yale University  
Shrey K Thawait MD, Kiran Batra MD, Avneesh Chhabra MD, Atif Zaheer MD.

MR Imaging of Perineural Spread of Pelvic Malignancy: A Case-Based Imaging Review

Mayo Clinic  
Benjamin M. Howe M.D. Robert J. Spinner M.D. Mark A. Nathan M.D. Joel P. Felmlee Ph.D. Kimberly K. Amrami M.D.

MR Artifacts: Friend or Foe

University of Cincinnati College of Medicine  
Aditya Vijay Bahel, D.O., Robert Wissman, M.D., Kalpesh Panchal, M.D., Daniel Wannemacher, M.D., Dale Kimbrough, M.D.

Vascular Conditions Occurring Around the Knee - A Pictorial Review

University of Michigan  
Daniel Glazer MD, Peter Liu MD

Gastrointestinal Carcinoid Tumor: The Role of CT and MR

University of Texas MD Anderson Cancer Center  
Gory Ballester, MD Carlos Llorens, MD Eric Tamm, MD Fanny Moron, MD Janio Szklaruk, MD, PhD

Scoring and Staging of Renal Cell Cancers: The role of CT and MR

The University of Texas MD Anderson Cancer Center  
Gory Ballester, M.D. Fanny E. Moron, M.D. Janio Szklaruk, M.D., Ph.D.

Diffusion Weighted MRI for Staging and Predicting Response in Diffuse Large B-Cell Lymphoma: A Pilot Study

University of Arizona  
Clint E. Jokerst, MD Marilyn J. Siegel, MD, Dhana Rajderkar, MD, Charles F. Hildebolt, DDS, PhD, Sagun Goyal, MD,\* Farrokh Dehdashti, MD, Nina Wagner Johnston, MD, Barry A. Siegel, MD

Lymphoma, Leukemia and Look-a-like Lesions: Abdominal Imaging Manifestations of Hematologic Malignancies and their Mimickers

SUNY Downstate  
Andrew Kesselman MD Anju Dubey MD Patrick Hammill MD Jason Gonsky MD

CT findings in Pulmonary Infections in Immunocompromised Patients in the Intensive Care Unit

Mount Sinai Medical Center  
Nikki Tirada, MD Chukus Anjeza, MD Hayden Daisha, MD Dreizin David, MD Mastrogiovanni Luciano, MD Burkell William, MD

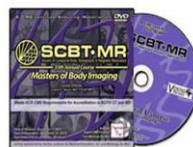
**2012 Annual Course Videos**

on the SCBT-MR website

Have you viewed them yet?

Available to Members-ONLY

[View 2012 Lectures](#)





**POSTERS**

**Non-infectious Interstitial Patterns and Distribution on Chest CT that Mimic Infection in an example Lymphoproliferative Disorder**

NIH  
*L R Folio, DO, MPH, V M Derderian, BS; C Lau, MD, MPH; K Perkins, RN; K Olivier, MD; V K Rao, MD*

**The Ten Minute Tavr Ct- A Guide To Efficient And Effective Interpretation Of Pre-Procedure Cta Using Automated Software**

Mayo Clinic, Jacksonville FL  
*Christopher Coleman, M.D. Pragnesh Parikh, M.D. Patricia Mergo, M.D. Brian Shapiro, M.D.*

**Utility of Iodine Extracted Images from Single Source Dual-Energy CTA to evaluate the Success of Endovascular Repair of Abdominal Aortic Aneurysm**

Massachusetts General Hospital  
*Mukta D Agrawal, MD, Sanjeeva P Kalva, MD, George R Oliveira, MD, Dushyant V Sahani, MD*

**Impact of commercially available iterative reconstruction algorithms (ASiR, SAFIRE) on image quality and radiation dose in CT enterography exams.**

Massachusetts General Hospital  
*Yasir Andrabi MD, MPH, Oleg Pianykh PhD, Avinash Kambadakone MD, Aditya Yadavalli BE, Dushyant V. Sahani MD.*

**Tumor heterogeneity in perfusion image for monitoring response to antiangiogenic therapy in hepatocellular carcinoma**

Massachusetts General Hospita  
*Koichi Hayano, MD. Sang Ho Lee, PhD. Jorge M. Fuentes, MD. Hiroyuki Yoshida, PhD. Dushyant V. Sahani, MD*

**Factors leading to high dose CT scans at a tertiary care center: can we avoid them?**

Hospital of University of Pennsylvania  
*P Prakash, MD W W Boonn, MD T S Cook, MD, PhD*

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SCBT-MR SPOTLIGHT has the following submission deadlines:

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- SPRING - February 28
- SUMMER - May 31
- FALL - August 31

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**ICRP103 effective dose vs DLP vs SSDE: which is a more clinically useful and sensitive tool for identifying radiation dose outliers?**

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**Comparison of Dose From Single Energy and Dual Energy Multi-Detector Computed Tomography Examinations in the Same Patient Screened for Hepatocellular Carcinoma**

Cleveland Clinic  
Andrei S Purysko, MD; Mark E Baker, MD; Andrew N Primak, PhD; Erick M Remer, MD; Nancy A Obuchowski, PhD; Binu John, MD; Brian R Herts, MD

**Impact of hysterectomy status on distal colonic morphology and endoscopic performance: Quantitative assessment at CTC.**

Hospital of the University of Pennsylvania  
Charles N. Weber, MD Hanna M. Zafar, MD, MHS Marc S. Levine, MD Bernhard Geiger, PhD Anna S. Lev-Toaff, MD

**Shootings and Stabbings Uncensored**

SUNY Downstate-Kings County Medical Center  
Patrick Hammill, M.D., Assistant Professor Atabak Allaei, M.D.

**Feasibility Of Applying Automated Ct Dose Tracking Software In A Multi-Site Multi-Vendor Ct Practice Using Kidney Stone Ct Exams As A Model.**

Massachusetts General Hospital  
Yasir Andrabi MD, MPH, Oleg Pinykh PhD, Aditya Yadavalli BE, Dushyant V. Sahani, MD

**Comparison Of Three Commercially Available Iterative Reconstruction Algorithms (Asir, Idose Safire) On Image Quality And Radiation Dose In Kidney Stone Ct Exams.**

Massachusetts General Hospital  
Yasir Andrabi MD, MPH, Oleg Pinykh PhD, Jorge M. Fuentes Orrego, MD, Aditya Yadavalli BE, Mukta Agrawal, MD, Dushyant V. Sahani, MD

**Diagnostic Performance Of Iteratively Reconstructed Dose Modified Mdct Angiography Exams Of Living Renal Donors.**

Massachusetts General Hospital  
Yasir Andrabi MD, MPH, Avinash Kambadakone MD, Mukta Agrawal MD, Dushyant V. Sahani, MD

**Detection of urolithiasis in 99 patients: Comparison between full dose scans with filtered-back projection reconstruction and ½ dose scans with iterative reconstruction using dual-source CT scan data**

Cleveland Clinic  
E M Remer, MD; B R Herts, MD; A Primak, PhD; W Karim, RT; N A Obuchowski, PhD; A S Purysko, MD; M K Feldman, MD; D M Roesel, DO; A Greiwe, DO; S De, MD; M Monga, MD; M E Baker, MD

**The silent killer in women: Utilizing CT to identify and characterize malignant ovarian neoplasms and malignant spread.**

St. Joseph Mercy Oakland  
Nadia Khan

**Integration of automated CT dose tracking software with clinical practice; our experiences so far.**

Massachusetts General Hospital  
Yasir Andrabi MD, MPH, Oleg Pinykh PhD, Dushyant V. Sahani MD

**Veo (MBIR) Implementation: process description and lessons learned**

M.D. Anderson Cancer Center  
CT Jensen MD, NA Wagner-Bartak MD, XJ Rong PhD, X Liu PhD, DD Cody PhD, EK Paulson MD and EP Tamm MD

**CT Model-Based Iterative Reconstruction: Pearls, Pitfalls, and Practical Solutions.**

M.D. Anderson Cancer Center  
N A Wagner-Bartak MD, C T Jensen MD, X J Rong PhD, J Punzalan, E K Paulson MD, D D Cody PhD, and E P Tamm MD



### Tube Current Modulation, Noise Index, Image Noise and Phantom Size

M.D. Anderson Cancer Center  
*X J Rong PhD, C T Jensen, MD, E P Tamm, MD, V Gershan PhD, D D Cody PhD, X Liu PhD, E K Paulson, MD, and Vikas Kundra, MD, PhD*

### How Do Iterative Reconstruction Algorithms Affect Spatial Resolution?

M.D. Anderson Cancer Center  
*C T Dodge MSc, C T Jensen MD, E P Tamm MD, D D Cody PhD, X Liu PhD, V Kundra MD, PhD and X J Rong, PhD*

### Radiation Dose and Image Quality in Pediatric Dual Energy CT: Phantom Study

Washington University in St. Louis  
*Marilyn J. Siegel MD, Charles Hildebolt PhD, David Bradley BS, Bernhard Schmidt PhD, Juan C. Ramirez-Giraldo PhD*

### Clues to Vascular Pathology on Noncontrast CT scan

North Shore University Hospital  
*1st author: Jennifer L. Berkowitz, MD 2nd author: Priya K. Shah, MD 3rd author: Gregory M. Grimaldi, MD*

### A Pictorial Essay of Common and Uncommon CT Findings of Left Upper Quadrant Abdominal Pain.

Santa Barbara Cottage Hospital  
*Jenny Lu, MD, Bernard Chow, MD*

### Noncontrast CT Imaging of Thrombosis: Hyperdense Vessel Sign

University of Chicago  
*Lingyun Xiong MD, Stephen Thomas MD*

### MR Evaluation of Liver Transplantation Complications

University of Chicago Medicine  
*Jessica Lai, M.D. and Stephen Thomas, M.D.*

### Improved Hepatic Hemangioma Visualization with Gadoxetate on Time-Resolved Spiral MRI

Weill Cornell Medical Center  
*Ying Liu, MD Nanda Thimmappa, MD Honglei Zhang, MD Martin R. Prince, MD, PhD Pascal Spincemaille, PhD*

### Diffusion weighted MRI as a screening tool in cirrhotic

livers.

University of Alabama at Birmingham  
*Mabry LM MD, McNamara MM MD, Thomas JV MD, Little MD MD, Alexander LF MD, Beasley TM Ph.D, Morgan DE MD*

### Arterial mapping prior to transarterial chemoembolization (TACE) with high temporal resolution MRI in cirrhotic patients with hepatocellular carcinoma (HCC)

Stanford Hospital and Clinics  
*Iva Petkovska MD, Manojkumar Saranathan PhD Thomas A. Hope MD, Brian A. Hargreaves PhD, Umar Tariq MBBS, Mian Zhang MS, Shreyas S. Vasawala MD, PhD*

### Delayed enhancement of colorectal metastases with MR hepatobiliary contrast agent

Massachusetts General Hospital  
*Rahul A. Sheth MD, Mukesh Harisinghani MD, and Sheela Agarwal MD*

### Congenital absence of portal vein.

UCLA  
*Shahnaz Ghahremani, MD*

### Utility of Gd-EOB-DTPA in the Non-cirrhotic Patient: Pearls and Pitfalls

University of Michigan  
*Daniel Glazer MD, Peter Liu MD, Hero Husasain MD*

### The Role of MRI in Islet Cell Transplantation

University of Arizona  
*Sindhu Kumar MD, Hina Arif-Tiwari, MD, DNB, James Costello, MD, PhD, Surya Chundru, MD, Bobby Kalb, MD, Horacio L. Rodriguez Rilo, MD, Rainer W.G. Gruessner, MD, FACS, Diego R. Martin, MD, PhD, FRCPC*

### The MRI Manifestations of Acute Renal Cortical Necrosis

Aultman Hospital  
*Arthy Saravanan MD, Michael Mader MD*

### 4D flow MR renography: a non-invasive technique for



**evaluation of renal arterial vasculature with application to renal transplant imaging.**

St Lukes Roosevelt Hospital  
*Zhang YC, M.D., Starc MT, M.D. Maccarrone V, M.D.*

**High resolution MRI for localized vaginal recurrence of endometrial cancer after hysterectomy: imaging protocols and impact on radiation therapy**

Baystate Medical Center  
*Qiqing Ge, MD, Sara Smolinski, MD, Seth Kaufman, MD, Dmitry Rakita, MD*

**MRI Appearance of Peritoneal Tumors**

Creighton University Medical Center  
*Rachel Runde MD Gopi Sirineni MD Brian Loggie MD Louis Morel MD Ted Wissink MD Brian Hamm MD*

**Imaging assessment of cardiovascular risk in asymptomatic adults**

Virginia Mason Medical Center  
*David U Kim, MD; Wayne Hwang, MD; Beverly Hashimoto, MD; Eugene Lin, MD*

**Expected imaging findings and complications following TACE and RFA treatment for HCC**

University of Chicago  
*Piotr Obara MD, Stephen Thomas MD*

**Hepatopancreaticobiliary Oncologic Surgery and Structured Reporting: What the Surgeons Want to Know**

Emory Health Care  
*Aarti Sekhar MD, Michael Osipow MD*

**“Not another one!” Making sense of CT and MR imaging features of focal splenic masses and recommendations for incidental findings.**

Baystate Medical Center  
*Sara Smolinski MD, Qiqing Ge MD, Dmitry Rakita MD, Shirley McCarthy, MD, PhD*

**A Rare Benefit from Alcohol Abuse -- The finding of a Choledocal Cyst**

Detroit Medical Center / Wayne State University

*Elnasif Arrayeh, MD Athar Haq, MD*

**Iatrogenic Uterine Injuries: Multimodality Imaging Review**

University of Texas Health Science Center at San Antonio  
*Cryselia Smith MD, Alampady Shanbhogue MD, Christine O Menias MD, Arpit Nagar MD, Manphool Singhal MD*

**Spectrum of CT and MR imaging findings following percutaneous thermal ablation of renal tumors: What to look for**

Hospital of the University of Pennsylvania  
*Benjamin L. Yam, MD; Nicholas Papanicolaou, MD; S. William Stavropoulos, MD*

**Depiction of Celiac Ganglia on Positron Emission Tomography and Computed Tomography**

Massachusetts General Hospital  
*Seyed Mahdi Abtahi Azadeh Elmi Sandeep S. Hedgire Yuen Chi Ho Sarvenaz Pourjabbar Sarabjeet Singh Mannudeep Kalra Mukesh Harisinghani*

**Cutaneous malignant melanoma: a spectrum of disease uniquely suited for evaluation with FDG PET/CT**

St. Luke's Roosevelt Hospital  
*Starc MT, M.D., Zhang YC, M.D., Maccarrone V, M.D.*

**Does breast biopsy affect lesion enhancement characteristics or accuracy of tumor measurement on MRI?**

Mount Sinai Medical Center  
*Nikki Tirada, MD Anjeza Chukus, MD Stuart Kaplan, MD*

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