

Radical Views... from the Department of Radiology

Beth Israel Deaconess Medical Center

HARVARD MEDICAL SCHOOL TEACHING HOSPITAL

Volume 7, Number 5

DECEMBER 2014



FROM THE CHIEF Jonathan B. Kruskal, MD PhD

RSNA Education Exhibit Awards

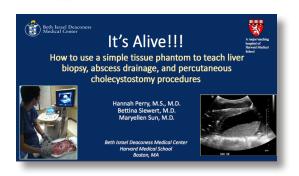
MKE169 Foot for Thought: Metatarsalgia Imaging and Intervention. Heba Almutairi, Almamoon I. Justaniah, Robert J. French, Dmitry Elentuck. Certificate of Merit

MSE142

It's Alive!!! How to Use a Simple Tissue Phantom to Teach Liver Biopsy, Abscess Drainage and Percutaneous Cholecystostomy Procedures. Maryellen R. Sun, Bettina Siewert, Hannah Perry. Magna cum laude

NRE333

A "Window" into Temporal Bone Pathology: Imaging of the Normal Anatomy and Pathology of the Oval and Round Windows of the Temporal Bone. Behroze Vachha, Azita S Khorsandi, **Gul Moonis**. Certificate of Merit I was so pleased with our efforts at RSNA's 100th Scientific Session in Chicago! Congratulations in particular to Maryellen Sun, Bettina Siewert and 2nd yr resident Hannah Perry for winning the top prize in their group, a Magna Cum Laude award for their education exhibit full of videos: It's Alive!!! How to Use a Simple Tissue Phantom to Teach Liver Biopsy, Abscess Drainage and Percutaneous Cholecystostomy Procedures.



In addition, see page 2 to see how well-represented our interventional Radiology has been the **RSNA Radiology Cares – Messages from our patients** webpage!

As usual, our alumni party allowed us to reconnect with former faculty and trainees and celebrate the 100th anniversary of Radiology!



Radiology Senior Deputy Editor **Deborah Levine** and Editor-in-Chief **Herbert Kressel** stand tall in Chicago, enjoying their efforts to help RSNA celebrate its centennial.

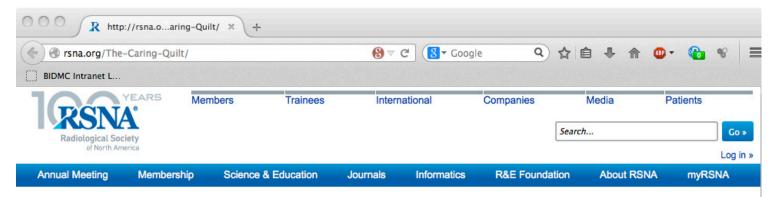


Our Israeli connection: BIDMC alumnus Jacob Sosna, currently Director of Radiology and Medical Imaging at Hadassah-Hebrew Uiversity Medical Center with current faculty Diana Litmanovich and Olga Brook who also came to BIDMC from Israel.



Ferris Hall, Priscilla Slanetz, and BIDMC alumni Rola Shaheen and Hans Blickman reconnect at RSNA!

Check out page 9 where our editor Donna Wolfe shares her appreciation of Radiology not as an employee but as a patient! BIDMC Interventional Radiology was also very well represented in the RSNA Radiology Cares – Messages from our patients http://rsna.org/The-Caring-Quilt/



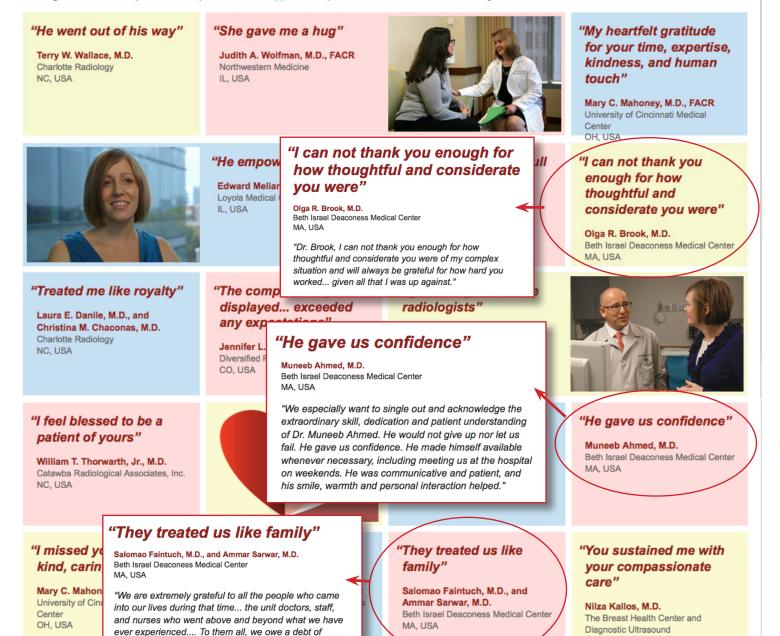
Radiology

THE ART OF PATIENT-CENTERED PRACTICE

FL, USA

The Caring Quilt: Messages from Our Patients

Click each "patch" of the **Radiology Cares Caring Quilt** to view a message of thanks from a patient to a radiologist, technologist or other medical imaging professional who made a difference in that patient's life. **Share your patient** messages of thanks and praise and help illustrate how appreciative patients are of those *above-and-beyond* efforts.



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gratitude. They treated us like family, and we will never

forget them."

Radiology Calendar DECEMBER 2014

Check for the most up-to-date schedule at: https://apps.bidmc.org/ departments/radiology/residency/conferences/displayMonth.asp

N/1	т			E.:
Mon	Tues	Wed	Thurs	Fri
Weekly Mon Section Meetings: 3:00-4:00 ED section meeting [ED annex, WCC]		Weekly Wed Section Meetings: 11:00-12:00 MSK clinical conf 12:00-1:00 CardioThoracic, Gl/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	Friday Grand Rounds: 12 noon Sherman Auditorium, East Campus (unless stated otherwise)
1 7:30 - 9:00 No conference (RSNA week)	2 7:30 - 9:00 No conference (RSNA week)	3 7:30 - 9:00 No conference (RSNA week)	4 7:30 - 9:00 No conference (RSNA week)	5 7:30-8:15 Leadership 2- Health Policy (Ammar Sarwar) 12:00-1:00 pm RSNA: No Grand Rounds
8 7:30 - 9:00 Mammo (TBD) 12:00-1:00 MRI Meeting [Ansin 2]	9 7:30 - 9:00 Mammo (TBD) 10:30-11:30 NMMI meeting [GZ-103]	10 7:30 - 9:00 Mammo (TBD) 7:15-8:00 US meeting [WCC-304A]	11 7:30 - 9:00 Mammo (TBD)	12 7:30 - 8:15 No conference-Interview Day (Chiefs) 12:00-1:00 pm Chiefs' Rounds (Drs. Dines, Khatani, Mehta, Pinar, Watts)
15 7:30 - 8:15 Tumor and Tumor-like conditions (Rafeeque Bhadelia) [tumor locations – parenchymal, pineal, ventricular, CP angle, posterior fossa] 8:15 - 9:00 Neuro Cases (Kim Smith)	16 7:30 - 8:15 Tumor and Tumor-like conditions (Rafael Rojas) [tumor types – glial tumors including AA, GBM, PXA, oligo, ependymoma; subependymoma, DNET, PNET, ganglioglioma, central neurocytoma, meningioma, hemangiopericytoma, lymphoma, leukemia, myeloma, Schwannoma/ neurofibroma, Lhermitte duclos] 8:15 - 9:00 Neuro Cases (Neuro Fellow (TBD) 8:00-9:00 IR Meeting	17 7:30 - 9:00 Physics (TBD)	18 7:30 - 8:15 Neuro Cases (Neuro fellow (TBD) 8:15 - 9:00 Neuro - topic to be determined (Rafael Rojas)	19 7:30 - 8:15 No conference-Interview Day (Chiefs) 12:00-1:00 pm Grand Rounds: <i>Moving Out of the Radiology Silo: All</i> <i>Things Contrast: A Quality Initiative</i> (Bridget O'Bryan-Alberts, RN, Nurse Mgr. and Suzanne Swedeen, RN)
22 7:30 - 9:00 No conference (Christmas week)	[West Recovery] 23 7:30 - 9:00 No conference (Christmas week) 10:30-11:30 NMMI meeting [GZ-103]	24 7:30 - 9:00 No conference (Christmas week)	25 7:30 - 9:00 No conference (Christmas)	26 7:30 - 9:00 No conference (Christmas week) 12:00-1:00 pm No Grand Rounds
29 7:30 - 9:00 No conference (New Year's week)	30 7:30 - 9:00 No conference (New Year's week)	31 7:30 - 9:00 No conference (New Year's week)	1 January 7:30 - 9:00 No conference (New Year's Day)	2 January 7:30 - 9:00 No conference (New Year's week)



Nuclear Medicine & Molecular Imaging Physician and Photographer

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



Thanks to Betsy Grady for allowing the rescheduling of her photos of her European travels so that Kevin Donohoe could share a chronological history of his seasonal holiday cards! He gives us great ideas for staying in touch with friends and family.

DEPARTMENTAL NEWS - DECEMBER GRAND ROUNDS

Friday, December 19th, 2014 12 noon - 1:00 PM • Sherman Auditorium

Moving Out of the Radiology Silo: All Things Contrast: A Quality Initiative Bridget O'Bryan-Alberts, RN MSN - BIDMC Nurse Manager Radiology Suzanne Swedeen, RN MSN - BIDMC Quality Improvement Specialist Radiology



Bridget O'Bryan-Alberts has been our Nurse Manager since 2009. A 1982 BSN graduate of Georgetown University, she has worked in many disciplines, including radiology nursing for over ten years. She recently received her Masters in Nursing Administration from Simmons College.



Suzanne Swedeen came to us last year as the Quality Improvement Specialist for Radiology. She is a BSN graduate of U Mass Boston in 1983, and received a certificate in legal consultation from Northeastern University. Most recently Suzanne received a masters in nursing administration from Simmons College. Prior to her transition to radiology Suzanne

was a cardiac nurse educator here at BIDMC and clinical supervisor at Norwood Hospital.

Moving Out of the Radiology Silo: All Things Contrast: A Quality Initiative

This initiative will provide a streamlined communication process for adverse contrast events in the department. Documenting in electronic systems that don't possess interprocess communication reliability, we face a daily challenge to effectively disseminate important information to both our patients and next care providers in a timely fashion. Tools to ensure standardized documentation practices and patient education materials were developed to facilitate a less arduous pathway in achieving this goal. Included in the presentation will be instruction in the use of OMR and the patient safety reporting and feedback system.



NEW MRI

It is with great pleasure that the MRI Operations Committee is able to announce the recent successful replacement of our oldest magnet at Shapiro 4 with a brand new state-of-the art MRI scanner. As some of you may remember, the Symphony scanner was initially installed 16 years (!) ago in the summer of 1998 and upgraded in 2003. The scanner got replaced last month by a 1.5T Aera scanner that has, and will, undoubtedly enhance the care we can provide to patients at BIDMC. Few of the new options that are available on the Aera include MR elastography to evaluate the stiffness of the liver in chronic liver diseases, "quiet suite" a silent scanning technique for some of our neuro MRI

sequences, "Freezit" a software package to improve body MRI by reducing patient motion artifacts and accelerate the acquisition of images, and "syngo WARP" an artifact reduction technique that can be used in patients with MR conditional implants.

This successful scanner replacement would not have been possible without the help and efforts of a large number of people working in our Department and the support of the hospital. With this, I would like to sincerely thank all of our employees who were involved in the project and the MRI managers and technologists for their patience and help with the recent implementation!

– Koenraad Mortele, MD







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2014 Radiology: "Many views with ONE VISION" 12th Annual Imaging Technologist Recognition Dinner The Inn at Longwood Medical Thursday Nov 6, 2014

















Olga Augustus presents the Championing the Cause Award to Breast Imaging Tech **Elizabeth Cretel** for delivering personalized and excellent care to our patients





Judy Farina presents the Stepping Up Award to Lexington/Chelsea Tech **Tracy Nadeau** for assisting with staff shortages and stepping up to cover in both Mammography and Dx Radiology

IR/INR Tech **Mary Cacciatorre**, sitting with Beth MacQuilken and Patty MacDonald, was awarded an Everyday Excellence Award for effectively demonstrating the principles of quality and performance excellence every day!

Not shown: Chestnut Square Tech **Hannah McArdle** who also won an Everyday Excellence Award.

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Bernie Kennedy, Olga Augustus and Donna Hallett present the Neutron Dance Award to NMMI Manager **Dace Jansons** for 35 years of outstanding service!





Bernie Kennedy presents an Everyday Excellence Award to a stand-in for US tech **Ellen Howe** for effectively demonstrating the principles of quality and performance excellence every day!





Betsy Grady presents the Human First Award to Dx tech **Josmar Silva** for providing compassionate care and always putting patients first!

Jeff English presents an Everyday Excellence Award to NMMI tech **Aaron Thurston** for effectively demonstrating the principles of quality and performance excellence every day!

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Bernie Kennedy presents the Deborah Walsh Award to Dx tech **Jeffrey Heinrich** for demonstrating professionalism, mentoring, compassion, and a commitment to quality patient care!



Thanks to Tim Parritt for arranging this photo of CT Tech **Jason Chagnon** who was unable to be there that evening to receive the Atlantis Award for staying cool under pressure while in challenging situations!

Not shown: MRI Tech **Krista Wolforth** who was awarded the Atlantis Award for staying cool under pressure while in challenging situations!

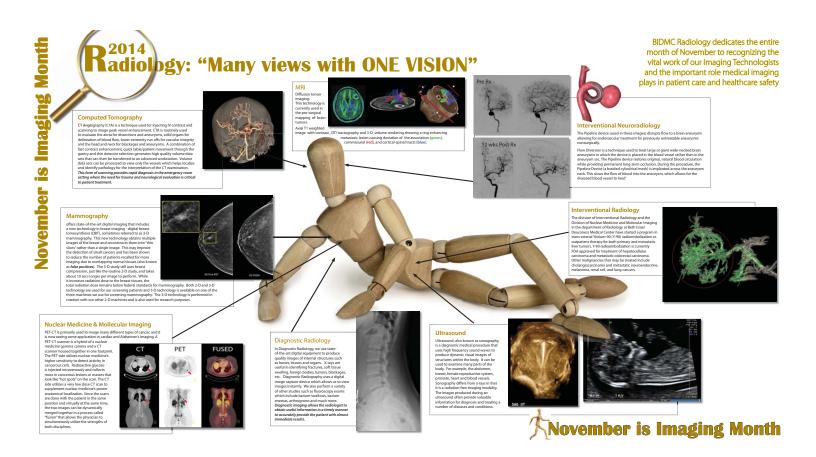




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Bernie Kennedy presents the Green Award to MR tech **Karen Platcow** for her commitment to environmentally sustainable work and practices!

Bill Hallett presents an Everyday Excellence Award for Needham tech **Nancy Lohnes** for effectively demonstrating the principles of quality and performance excellence every day! *Accepting for Nancy is Lillian Likos.*



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!

СТ

We have recently had notes of appreciation coming in from our Customer Survey Kiosks, Physician Leadership and Letters to the President. All taking the time to recognize CT staff for extraordinary care, skill in imaging and creating a positive experience while at BIDMC. Great work Angela Blaise (not shown), Rich Munro, Carlos Silva, Jessica Buttaro, Jae Kim, Michael Jones, Kristen Hill (not shown), Jaime Haugh (not shown), and Kathy Sullivan!



Rich Munro



Carlos Silva

Jessica Butaro



Michael Jones



Kathy Sullvan

BREAST IMAGING



Elena Shimonov: we recognize your continued support and commitment to the team and our patients, your ongoing flexibility in making last minute adjustments to your personal schedule is commendable. A recent notable event was you calling in on a scheduled day off to see how we were doing, on hearing that an unplanned event meant that staffing was stretched beyond capacity of our goal in providing matched coverage to the ultrasound rooms you promptly offered to come in.

Jae Kim

KUDOS - BREAST IMAGING (cont'd)

Karen Dowie (not shown): In recognition of your continued support and commitment to the team and our patients, with the recent staffing challenges you have ensured that patient care remains seamless for those requiring combo appointments, on occasion you have worked through your shift to ensure that a "hand off" is not needed ensuring continuity of care for a patient in the midst of an invasive ultrasound guided breast procedure with whom you have created a bond.



Cynthia Smith: In recognition of your continued support and commitment to the team and our patients. You continually have demonstrated your ongoing flexibility to support the staffing demand associated with the recent staffing challenge notably affecting breast ultrasound coverage, you have worked with me and made planned

and unplanned adjustments to your personal schedule so as to be available to back fill the staffing needs for this technical skill set, which continues to be commendable.



Constance Mulcahy: In recognition of your support and commitment to your co-workers and our patients, by seamlessly adjusting to the FTE shortage at the same time excelling in multi-tasking in your role as the lead for the departmental QC program for which we received a successful ACR outcome. You are also a valued and

knowledgeable resource for members of the QC team and rotating residents.



Dorothy Sands: You are a valued and knowledgeable resource to our internal and external customers of the diagnostic workflow. You are able to multi-task successfully while working diligently alongside your coworkers to ensure that patient schedules are met. A recent patient appreciation letter commended you for your excellent customer service

and imaging skills for accommodating her imaging needs as an "add on" to a busy schedule.



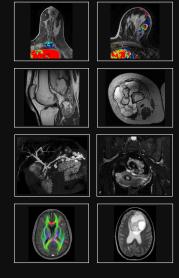


HARVARD MEDICAL SCHOOL



Beth Israel Deaconess Medical Center

Clinical MRI 2014 From Structure to Function



Wednesday - Friday December 17 - 19, 2014 Boston Marriott Long Wharf **Boston**, MA

Guest Faculty

Mauricio Castillo • Emmanuel Kanal John Leyendecker • Neel Madan Steven Poplack • David Rubin • Jorge Soto

Course Co-Directors Mary Hochman • Koenraad J. Mortele Rafael Rojas • Priscilla J. Slanetz

Earn Up To 20.50 AMA PRA Category 1 Credits

Kate and I are excited to introduce you to Sophia Connolly Koles, born 12/1/14 at 12:37 pm, weighing in at 8 lbs 12 oz and 19.25 inches. Everyone is healthy and doing well.

- Caitlin Connolly, MD 3rd yr resident

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Case Report: A first-hand experience of Radiology's contribution to my patient care



As a medical editor at BIDMC since 1997, I have spent years helping to present and publish the advances and accomplishments in Radiology but recently, I experienced first-hand the essential contribution of Radiology to the treatment paradigm. In Oct., I was rushed to the ER with a seizure and was awed to see the role of imaging (2 CTs, a chest x-ray and 5 MRIs) required for Neurology and Neurosurgery to successfully treat my condition. Thanks to Rafael Rojas for helping explain and interpret my case history and to my suregon Ekkehard Kasper, Neurology attending Penny Greenstein, Brain Tumor Center Director Eric Wong, and Neuro nurse practioners Julianne Bloom and Loretta Barron!



Thank you all for your support and best wishes!

- Donna Wolfe

An initial head CT (a) showed an area of edema in the left temporal lobe with minimal mass effect which was concerning for an intracranial tumoral lesion so the radiologists (Rafael Rojas and Drew Colucci) recommended an MRI of the head with contrast to better characterize the lesion. The following MRIs (b,c) showed the left temporal extra-axial enhancing lesion which was responsible for the edema, attached to the dura.

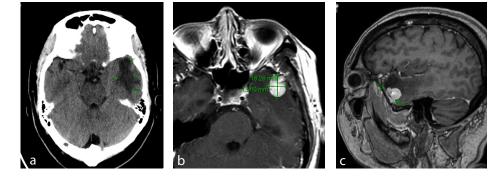
Due to the lesion's location in an eloquent area, the neurosurgeon (Dr. Ekkehard Kasper) ordered a functional MRI (d) to determine if the lesion could be removed without damage to the langauge areas. At the same time a 3D rendered DTI (diffusion tensor imaging) Tractography (e) was created to visualize the deviation of neural tracks adjacent to the edema. (A breast MRI was also ordered to rule out any source of potential metastatic disease.)

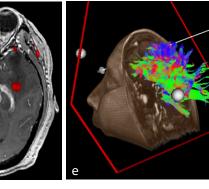
A repeat MRI (f) was performed with fiducial markers to establish coordinates of the lesion for GPS mapping for the surgeons. Characterized as a possible meningioma, the neurologists then contacted neurosurgery to schedule a resection (and biopsy) given its size and accessability.

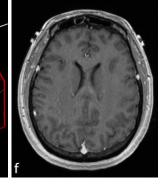
A presurgical contrast CTA also showed more extensive vascularization of the tumor which was invaluable for complete resection. A post surgical follow-up CT scan demonstrated in the scout view the surgical approach, consistent with left-sided craniotomy.

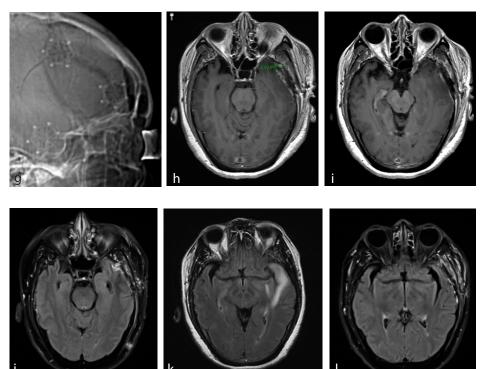
I was priveleged to see the three small plates used to reattach the bones after the surgery (g). A post-surgical MRI (h,i, J, K) was also performed within 24 hours to establish a new baseline image and also demonstrated the resection of the mass with mild dural enhancement which needs to be followed to rule out any potential residual activity or recurrence.

Finally, a one-month follow-up contrast MRI (I) confirmed no evidence of recurrence and decreased edema and *showed that my brain was back to normal* although follow-up MRIs are in my future in keeping with protocol.









k., I. Same sequence Pre and Post surgical (1 month follow-up) shows significant decrease in edema

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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.

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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Al-Hawary MM, Francis IR, Chari ST, Fishman EK, Hough DM, Lu DS, Macari M, Megibow AJ, Miller FH, **Mortele KJ**, Merchant NB, Minter RM, Tamm EP, Sahani DV, Simeone DM. Pancreatic ductal adenocarcinoma radiology reporting template: consensus statement of the society of abdominal radiology and the american pancreatic association. Radiology. 2014 Jan;270(1):248-60. doi: 10.1148/radiol.13131184. PMID: 24354378.

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Alsop DC, Detre JA, Golay X, Günther M, Hendrikse J, Hernandez-Garcia L, Lu H, Macintosh BJ, Parkes LM, Smits M, van Osch MJ, Wang DJ, Wong EC, Zaharchuk G. Recommended implementation of arterial spin-labeled perfusion MRI for clinical applications: A consensus of the ISMRM perfusion study group and the European consortium for ASL in dementia. Magn Reson Med. 2014 Apr 8. doi: 10.1002/mrm.25197. PMID: 24715426; PMCID: PMC4190138.

<u>Anderson TJ</u>, Atalay MK, Grand DJ, Baird GL, Cronan JJ, Beland MD. Management of nodules with initially nondiagnostic results of thyroid fine-needle aspiration: can we avoid repeat biopsy? Radiology. 2014 Sep;272(3):777-84. doi: 10.1148/radiol.14132134. PMID: 24749714. Andriyanov AV, Koren E, Barenholz Y, **Goldberg SN**. Therapeutic Efficacy of Combining PEGylated Liposomal Doxorubicin and Radiofrequency (RF) Ablation: Comparison between Slow-Drug-Releasing, Non-Thermosensitive and Fast-Drug-Releasing, Thermosensitive Nano-Liposomes. PLoS One. 2014 May 1;9(5):e92555. doi: 10.1371/journal. pone.0092555. eCollection 2014. PMID: 24786533; PMCID: PMC4006748.

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