

**Abdominal Imaging and Intervention  
Staff Publications  
2016**

1. Barentsz JO, Choyke PL, Cornud F, Haider MA, Macura KJ, Margolis D, Shtern F, Padhani AR, **Tempany CM**, Thoeny HC, Verma S, Weinreb JC. Reply to Erik Rud and Eduard Baco's Letter to the Editor re: Re: Jeffrey C. Weinreb, Jelle O. Barentsz, Peter L. Choyke, et al. PI-RADS Prostate Imaging - Reporting and Data System: 2015, Version 2. *Eur Urol* 2016;69:16-40. *Eur Urol*. 2016: S0302-2838(16)30075-6.
2. Barentsz JO, Weinreb JC, Verma S, Thoeny HC, **Tempany CM**, Shtern F, Padhani AR, Margolis D, Macura KJ, Haider MA, Cornud F, Choyke PL. Synopsis of the PI-RADS v2 Guidelines for Multiparametric Prostate Magnetic Resonance Imaging and Recommendations for Use. *Eur Urol*. 2016;69(1):41-9.
3. Behringer PA, Herz C, Penzkofer T, **Tuncali K**, **Tempany CM**, Fedorov A. Open-Source Platform for Prostate Motion Tracking During in-Bore Targeted MRI-Guided Biopsy. *Clin Image Based Proced*. 2016;9401:122-129.
4. Beland MD, Sternick LA, Baird GL, Dupuy DE, Cronan JJ, **Mayo-Smith WW**. Optimizing modality selection for image-guided procedures: an analysis of the challenges to ultrasound guidance. *Abdom Radiol* 2016;41(4):590-599.
5. Chen Q, Müftü S, Meral FC, **Tuncali K**, Akçakaya M. Model-based optimal planning of hepatic radiofrequency ablation. *Math Med Biol*, Chen Q, Müftü S, Meral FC, Tuncali K, Akçakaya M. *Math Med Biol*. 2016,19. pii: dqw011.
6. Chiang AL, Hornick JL, **Sahni VA**, Clancy TE, Ryou M. Autoimmune pancreatitis presenting as multifocal masses, diagnosed on ampullary biopsy. *Pancreas* 2016;45:e25-27.
7. Ciris PA, Balasubramanian M, Seethamraju RT, Tokuda J, Scalera J, Penzkofer T, Fennessy FM, **Tempany-Afdhal CM**, **Tuncali K**, Mulkern RV. Characterization of gradient echo signal decays in healthy and cancerous prostate at 3T improves with a Gaussian augmentation of the mono-exponential (GAME) model. *NMR Biomed*. 2016 Jul;29(7):999-1009.
8. Ciris PA, Balasubramanian M, Damato AL, Seethamraju RT, **Tempany-Afdhal CM**, Mulkern RV, Viswanathan AN. Characterizing gradient echo signal decays in gynecologic cancers at 3T using a Gaussian augmentation of the monoexponential (GAME) model. *JMRI* 2016;29(7):999-1009.
9. Eslami S, Shang W, Li G, Patel N, Fischer GS, Tokuda J, Hata N, **Tempany CM**, lordachita I. In-bore prostate transperineal interventions with an MRI-guided parallel manipulator: system development and preliminary evaluation. *Int J Med Robot*. 2016;12(2):199-213.

10. Fintelman F, **Tuncali K**, Puchner S, Gervais DA, Thabet A, **Shyn PB**, Arellano RS, **Tatli S**, Mueller PR, **Silverman SG**, Uppot RN. Catecholamine surge during image-guided ablation of adrenal gland metastases: predictors, consequences and recommendations for management. *JVIR* 2016; 27:395-402.
11. Fedorov A, **Tuncali K**, Panych LP, Fairhurst J, Hassanzadeh E, Seethamraju RT, **Tempany CM**, Maier SE. Segmented diffusion-weighted imaging of the prostate: Application to transperineal in-bore 3T MR image-guided targeted biopsy. *Magn Reson Imaging*. 2016;34(8):1146-1154.
12. Guennette JP, **Tuncali K**, James N, **Tatli S**, Lee TC. Spine cryoablation: a multimodality image-guided approach for tumors adjacent to major neural elements *AJNR* 2016;37:2396-2399.
13. Gunn AJ, Tuttle MC, Flores EJ, Mangano MD, Bennett SE, Sahani DV, Choy G, **Boland GW**. Differing Interpretations of Report Terminology Between Primary Care Physicians and Radiologists. *J Am Coll Radiol*. 2016;13(12 Pt A):1525-1529.e1.
14. Hata N, Song SE, Olubiyi O, Arimitsu Y, Fujimoto K, Kato T, **Tuncali K**, Tani S, Tokuda J. Body-mounted robotic instrument guide for image-guided cryotherapy of renal cancer. *Med Phys*. 2016;43(2):843-53.
15. Hata N, **Tatli S**, Yamada A, Olubiyi O, **Silverman SG**. Non-rigid registration of pre-procedural MRI and intra-procedural CT-guided cryoablation of lung tumors to improve lung tumor conspicuity. *Journal of Medical Robotics Research* 2016;1(2):1650004.
16. Ip IK, Silveira PC, Alper EC, Benson CB, **Khorasani R**. External validation of risk stratification strategy in the use of renal ultrasonography in the evaluation of acute kidney injury. *J Hosp Med* 2016 Nov;11(11):763-767.
17. Kelil T, **Shyn PB**, Wu L, Levesque VM, Kacher D, **Khorasani R**, **Silverman SG**. Wall suction–assisted image-guided therapeutic paracentesis: a safe and less expensive alternative to evacuated bottles. *Abdominal Radiology* 2016;41:1333-1337.
18. Kim H, **Sainani NI**. Diffuse Pancreatic Disease. In: Sahani DV, Samir AE, editors. *Abdominal Imaging, Expert Radiology, Second Edition*. Philadelphia, PA, W.B. Saunders 2016.
19. Kim H, **Sainani NI**. Miscellaneous Pancreatitis. In: Sahani DV, Samir AE, editors. *Abdominal Imaging, Expert Radiology, Second Edition*. Philadelphia, PA, W.B. Saunders 2016.
20. King F, Jagadeesan J, Bhagavatula SK, **Shyn PB**, Pieper S, Kapur T, Lasso A, Fichtinger G. An immersive virtual reality environment for diagnostic imaging. *J Med Robotics Res* 2016;01:1640003.

21. Kohli M, **Mayo-Smith W**, Zagoria R, Sandrasegaran K. Image-guided intervention in the coagulopathic patient. *Abdom Radiol* 2016;41(4):667-676.
22. Lacson R, O'Connor SD, **Sahni VA**, Roy, Dalal A, Desai S, **Khorasani R**. Impact of an electronic alert notification system embedded in radiologists' workflow on closed-loop communication of critical results: a time series analysis. *BMJ Qual Saf.* 2016;26:518-524.
23. Lacson R, Raja AS, Osterbur D, Ip I, Schneider L, Bain P, Mita C, Whelan J, Silveira P, Dement D, **Khorasani R**. Assessing strength of evidence of appropriate use criteria for diagnostic imaging examinations. *J Am Med Inform Assoc.* 2016;23(3):649-53.
24. Manuel MM, Cho LP, Catalano PJ, Damato AL, Miyamoto DT, **Tempny CM**, Schmidt EJ, Viswanathan AN. Outcomes with image-based interstitial brachytherapy for vaginal cancer. *Radiother Oncol* 2016: S0167-8140(16)31122-31127.
25. Mnatzakanian GN, Shinagare AB, **Sahni VA**, Hirsch MS, **Silverman SG**. Early stage clear cell tubulopapillary renal cell carcinoma: imaging features and distinction from clear cell and papillary subtypes. *Abdom Radiol* 2016;41:21:2187-2195.
26. O'Connor SD, Dalal AK, **Sahni VA**, Lacson R, **Khorasani R**. Does integrating non-urgent, clinical significant radiology alerts within the electronic health record impact closed loop communication and follow-up? *Journal of the American Medical Informatics Association* 2016;23:333-338.
27. O'Neill, AC, Craig JW, **Silverman SG**, **Alencar RO**. Anastomosing hemangiomas: locations of occurrence, imaging features and diagnosis with percutaneous biopsy. *Abdominal Radiology* 2016;41:1325-1332.
28. Padole A, **Sainani N**, Lira D, Khawaja RD, Pourjabbar S, Lo Gullo R, Otrakji A, Kalra MK. Assessment of sub-milli-sievert abdominal computed tomography with iterative reconstruction techniques of different vendors. *World J Radiol.* 2016;8(6):618-627.
29. Pandharipande PV, Herts BR, Gore RM, **Mayo-Smith WW**, Harvey HB, Megibow AJ, Berland LL. Rethinking normal: benefits and risks of not reporting harmless incidental findings. *J Am Coll Radiol.* 2016;13(7):764-767.
30. Pandharipande PV, Herts BR, Gore RM, **Mayo-Smith WW**, Harvey HB, Megibow AJ, Berland LL. Authors' Reply. *J Am Coll Radiol.* 2016;13(9):1025-1027.
31. Riella L, **Souza D**. Kidney Transplant Ultrasound. In: Riella, L. 1st Edition of the Kidney Transplant eBook, 2016.
32. **Sadow CA**, Maurer AN, Prevedello LM, Sweeney CJ, **Silverman SG**. CT restaging of testicular germ cell tumors: the incidence of isolated pelvic metastases. *Eur J Radiol* 2016;85(8):1439-1444.

33. **Sahni VA, Khorasani.** The actionable abdominal imaging report. *Abdominal Radiology* 2016;41:429-443.
34. **Sahni VA, Khorasani R.** Radiology double reads. *BMJ Quality and Safety* 2016;569-571.
35. **Sainani N, Silverman SG,** Tuna IS, Aghayev A, **Shyn PB, Tuncali K, Tatli S.** Incidence and clinical sequelae of portal and hepatic venous thrombosis following percutaneous cryoablation of liver tumors. *Abdominal Radiology* 2016;41:970-977.
36. **Sainani N, Silverman SG.** Percutaneous image-guided abdominal biopsy. In: Kandarpa K, Machan L, Durham J, editors. *Handbook of Interventional Radiologic Procedures*, 5<sup>th</sup> Ed., Lippincott, Williams and Wilkins, Philadelphia, PA, 2016.
37. **Seltzer SE.** Herbert Leroy Abrams, MD. *Radiology*. 2016;279(3):985.
38. Shinagare AB, Vikram R, Jaffe C, Akin O, Kirby J, Huang E, Freymann J, **Sainani N, Sadow CA,** Bathala TK, Rubin D, Oto A, Heller MT, Surabhi VR, Katabathina V, **Silverman SG.** Radiogenomics of clear cell renal cell carcinoma: preliminary findings of the cancer genome atlas-renal cell carcinoma (TCGA-RCC) research group. *Abdominal Imaging* 2016;40:1684-1692.
39. **Shyn PB,** Bird JR, Koch RM, **Tatli S,** Levesque VM, Catalano PJ, **Silverman SG.** Hepatic microwave ablation zone size: correlation with total energy, net energy and manufacturer-provided chart predictions. *JVIR* 2016;27(9):1389-96.
40. Silveira PC, Ip IK, Sumption S, Raja AS, Tajmir S, **Khorasani R.** Impact of a clinical decision support tool on adherence to the Ottawa Ankle Rules. *Am J Emerg Med*. 2016;34(3):412-418.
41. **Silverman SG,** Lu D.S.K, Lee FT. Abdominal radiology in the era of the Interventional Radiology/Diagnostic Radiology certificate. *Abdominal Radiology* 2016: 41:586-589.
42. Tai R, **Dunne RM,** Trotman-Dickenson B, Jacobson FL, Madan R, Kumamaru K, Hunsaker AR. Incidence and severity of pulmonary hemorrhage in patients undergoing percutaneous computed tomography (CT)-guided transthoracic lung biopsy (TTLB): Single Institution Experience of 1,175 Cases. *Radiology* 2016;279:237-296.
43. Tani S, **Tatli S,** Hata N, Garcia X, Olubiyi O, **Silverman SG,** Tokuda J. Three-dimensional quantitative assessment of ablation margins based on registration of pre- and post-procedural MRI and distance map. *International Journal of Computer Assisted Radiology and Surgery* 2016;1133-1142.
44. **Tempany-Afdhal CM, Seltzer SE.** Ferenc A. Jolesz, MD. *Radiology*. 2016;279(3):986.

45. **Tempany C.** Opportunities for multiparametric MRI with PI-RADS v2 to make a difference. *Future Oncol.* 2016 Nov;12(21):2397-2399.
46. **Tempany CM.** Editorial Comment. *Urology.* 2016 Dec 26. pii: S0090-4295(16)30918-9.
47. **Tirumani SH, Souza D,** Krajewski KM, Jagannathan JP, Ramaiya NH, Shinagare AB. Impact of histologic subtype and sarcomatoid transformation on metastasis in renal cell carcinoma: a single institute experience in 149 patients. *Abdom Radiol* 2016;41(2):295-302.
48. van Grinsven J, van Brunschot S, Bakker OJ, Bollen TL, Boermeester MA, Bruno MJ, Dejong CH, Dijkgraaf MG, van Eijck CH, Fockens P, van Goor H, Gooszen HG, Horvath KD, van Lienden KP, van Santvoort HC, Besselink MG; Dutch Pancreatitis Study Group (**Sainani NS**). Diagnostic strategy and timing of intervention in infected necrotizing pancreatitis: an international expert survey and case vignette study. *HPB (Oxford).* 2016 Jan;18(1):49-56.
49. Weinreb JC, Barentsz JO, Choyke PL, Cornud F, Haider MA, Macura KJ, Margolis D, Schnall MD, Shtern F, **Tempany CM,** Thoeny HC, Verma S. PI-RADS Prostate Imaging - Reporting and Data System: 2015, Version 2. *Eur Urol.* 2016;69(1):16-40.
50. Yacoub JH, Oto, A, Allen BC, Coakley FV, Friedman B, Hartman MS, Hosseinzadeh, Porter C, **Sahni VA,** Sudakoff GS, Verma S, Wang CL, Remer EM, Eberhardt SC. ACR appropriateness criteria staging of testicular malignancy. *Journal of American College of Radiology* 2016;13(10):1203-1209.