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The Amita Shukla-Dave Lab

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Amita Shukla-Dave, PhD, FISMRM

Vice Chair Radiology, Medical Physics Outreach; Director, Quantitative Imaging; Deputy Service Chief
Predictive Informatics

My group's research focuses on developing and implementing advanced quantitative imaging biomarkers derived from MR imaging physics techniques including MR fingerprinting (MRF), diffusion-weighted MRI (DW-MRI), dynamic contrast-enhanced MRI (DCE-MRI), and MR spectroscopy (MRS) for clinical application in cancer.



Publications Highlights

[Shukla-Dave A, Obuchowski NA, Chenevert TL, Jambawalikar S, Schwartz LH, Malyarenko D, Huang W, Noworolski SM, Young RJ, Shiroishi MS, Kim H, Coolens C, Laue H, Chung C, Rosen M, Boss M, Jackson EF. Quantitative imaging biomarkers alliance \(QIBA\) recommendations for improved precision of DWI and DCE-MRI derived biomarkers in multicenter oncology trials. J Magn Reson Imaging. 2019 Jun;49\(7\):e101-e121](#)

[Paudyal R, Konar AS, Obuchowski NA, Hatzoglou V, Chenevert TL, Malyarenko DI, Swanson SD, LoCastro E, Jambawalikar S, Liu MZ, Schwartz LH, Tuttle RM, Lee N, Shukla-Dave A. Repeatability of Quantitative Diffusion-Weighted Imaging Metrics in Phantoms, Head-and-Neck and Thyroid Cancers: Preliminary Findings. Tomography. 2019 Mar;5\(1\):15-25](#)

[Corrias G, Raeside MC, Agostini A, Huicochea-Castellanos S, Aramburu-Nunez D, Paudyal R, Shukla-Dave A, Smelianskaia O, Capanu M, Zheng J, Fung M, Kelsen DP, Mangino DA, Robson ME, Goldfrank DJ, Carter J, Allen PJ, Conti B, Monti S, Do RKG, Mannelli L. Pilot study of rapid MR pancreas screening for patients with BRCA mutation. Eur Radiol. 2019 Jan 28. doi: 10.1007/s00330-018-5975-0.](#)

[Keenan KE, Biller JR, Delfino JG, Boss MA, Does MD, Evelhoch JL, Griswold MA, Gunter JL, Hinks RS, Hoffman SW, Kim G, Lattanzi R, Li X, Marinelli L, Metzger GJ, Mukherjee P, Nordstrom RJ, Peskin AP, Perez E, Russek SE, Sahiner B, Serkova N, Shukla-Dave A, Steckner M, Stupic KF, Wilmes LJ, Wu HH, Zhang H, Jackson EF, Sullivan DC. Recommendations towards standards for quantitative MRI \(qMRI\) and outstanding needs. J Magn Reson Imaging. 2019 Jan 24.](#)

[Mazaheri Y, Shukla-Dave A, Goldman DA, Moskowitz CS, Takeda T, Reuter VE, Akin O, Hricak H. Characterization of prostate cancer with MR spectroscopic imaging and diffusion-weighted imaging at 3 Tesla. Magn Reson Imaging. 2019 Jan; 55:93-102. doi: 10.1016/j.mri.2018.08.025. Epub 2018 Aug 31. PMID: 30176373.](#)

[View All Publications](#)

People



Amita Shukla-Dave, PhD, FISMRM

Vice Chair Radiology, Medical Physics Outreach; Director, Quantitative Imaging; Deputy Service Chief Predictive Informatics

Medical physicist Amita Shukla Dave's clinical and research focus is on the development and implementation of advanced quantitative imaging biomarkers for application in cancer care.


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Lab Affiliations

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