

# Janaka P. Wansapura, PhD

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## EDUCATION

PhD, Physics, University of Cincinnati, USA, 1999

BSc (Hons) First Class, Physics, University of Colombo, Sri Lanka, 1991

## APPOINTMENTS

- 2020- Associate Professor  
**Advanced Imaging Research Center, University of Texas Southwestern Medical Center**
- 2015-2020 Senior Lecturer I  
**Department of Physics, University of Colombo**
- 2004-2014 Associate Professor  
**Imaging Research Center, Cincinnati Children's Hospital**
- 2002-2003 Assistant Professor  
**Department of Radiology, University of Mississippi**
- 1999-2001 Post-Doctoral Fellow  
**Radiological Sciences Lab, Stanford University**

## AWARDS

- Presidential Award for Scientific Publications, National Research Council, Sri Lanka, 2018
- Senate Award for Research Excellence, University of Colombo, 2016
- Mentored Career Development Award, National Institute of Health, Bethesda, MD, 2009
- Finalist, Young Investigator Award. Association for the Advancement of Medical Instrumentation (AAMI), Baltimore, USA, 2001.
- Justin Samarasekera Award for the most outstanding student of the year. University of Colombo, Sri Lanka, 1991.

## PROFESSIONAL CERTIFICATION

SEDA Certificate of Accreditation for Teachers in Higher Education,  
Staff and Educational Development Association (SEDA), UK, 2018

## PROFESSIONAL/SERVICE APPOINTMENTS/MEMBERSHIPS

- Secretary: Sri Lanka Medical Physics Society, 2019
- President: Science Faculty Teacher's Union, University of Colombo, 2018-2019
- Senior Treasurer: Science Faculty Student Union, University of Colombo, 2018-2019
- Senior Treasurer: Science Faculty Leo Club, University of Colombo, 2017-2019
- Reviewer: AHEAD grants/World Bank, 2018-2019
- Member: MCQ Core group, Board of study in Radiology, Post Graduate Institute of Medicine, 2018-2019
- Member: Academy of Integrated Sonography in Emergency and Critical care, 2018-2019
- Visiting Lecturer: Kotalawela Defence University, 2017-2018
- Visiting Lecturer: Institute of Labor Education, 2016-2019

- Member: International Society for Magnetic Resonance Imaging, 1999-2015

### **ACTIVE GRANTS AND RESEARCH CONTRACTS**

- Research Agreement 2018-  
Philips Medical Systems Nederland B.V., 2018  
Role: Principal Investigator
- Investigator Driven Grants, 2016-2020  
National Research Council  
A novel Ultrasound technique to detect early signs of Chronic Kidney Disease  
Role: Principal Investigator
- Collaborative Research Grants, 2019-2021  
University of Colombo  
Magnetic Resonance Imaging based renal blood flow in chronic kidney disease  
Role: Principal Investigator

### **RECENT INVITED TALKS**

- “Noninvasive assessment of fibrosis”, Colombo Medical Congress, Faculty of Medicine, University of Colombo, February 2020.
- “Advances in Relaxation Mapping”, First National Workshop on Radiological Sciences, Jaffna, March, 2019
- “How ultrasound images are made”, Colombo International Trauma Conference, National Hospital Sri Lanka, September, 2018
- “Cardiac MRI”, General Sir John Kotelawala Defense University, August 2018.
- “Machine Learning in Medicine”, International Conference on Computational Modeling & Simulation, Colombo, May 2017.

### **PUBLICATIONS**

1. MS Bandara, B Gurunayaka, GP Lakraj, A Pallewatte, C Jayasumana, S Siribaddana, **JP Wansapura**, Sonographic Features of Chronic Kidney Disease in Agricultural Community in Sri Lanka, *Am. J. Ultrasonography* (accepted for publication 2/2020)
2. Hewadikaram DK, Bandara M, Pattivedana AN, Jayaweera HHE, Jayananda KM, Madhavi WAM, Pallewatte A, Jayasumana C, Siribaddana S, **Wansapura JP**, “A Novel Ultrasound Technique to Detect Early Chronic Kidney Disease”, *F1000Research* 2018, 7:448 (doi: 10.12688/f1000research.14221.1)
3. N. Bakeer, J. James, S. Roy, **J. Wansapura**, S. K. Shanmukhappa, J. N. Lorenz, *et al.*, "Sickle cell anemia mice develop a unique cardiomyopathy with restrictive physiology," *Proc Natl Acad Sci U S A*, vol. 113, pp. E5182-91, Aug 30 2016.
4. Arumugam PI, Mullins ES, Shanmukhappa SK, Monia BP, Loberg A, Shaw MA, Rizvi T, **Wansapura J**, Degen JL, Malik P. Genetic diminution of circulating prothrombin ameliorates multiorgan pathologies in sickle cell disease mice. *Blood*. 2015 Oct 8;126(15):1844-55.

5. Ashish Das, **Janaka P Wansapura**, William M Gottliebson, Rupak Banerjee. Methodology for implementing patient-specific spatial boundary condition during a cardiac cycle from phase-contrast MRI for hemodynamic assessment. *Med Image Anal.* 2014; 19(1):121-136
6. Anne-Cecile Huby, Ken Takagi, Ruben Martherus, Uzme Mendsaikhon, **Janaka Wansapura**, Nan Gong, Jeanne James, Kristen Kramer, Zaza Khuchua, Jeffrey A. Towbin, Enkhsaikhon Purevjav. Disturbance in Z-disk mechanosensitive proteins induced by a persistent mutant myopalladin causes familial restrictive cardiomyopathy. *J Am Coll Cardiol.* 2014; 64(25):2765-76
7. Varun K. Krishnamurthy, Ashlie N. Evan, **Janaka P. Wansapura**, Hanna Osinskae, Kelsey E. Maddy, Stefanie V. Biechler, Daria A. Narmoneva, Richard L. Goodwin, Robert B. Hinton. Asymmetric Cardiac Neural Crest and Abnormal Biomechanics in Elastin Insufficiency Induced Aortopathy. *Ann Biomed Eng.* 2014; 42(10):2014-28
8. Dibaji SAR, **Wansapura J**, Myers MR, Banerjee RK. In-vivo monitoring of HIFU induced temperature rise in porcine liver using magnetic resonance thermometry. *ASME Journal of Medical Devices.* 2014, MED-14-1088.
9. Maiellaro-Rafferty K, **Wansapura JP**, Mendsaikhon U, Osinska H, James JF, Taylor MD, Robbins J, Kranias EG, Towbin JA, Purevjav E. Altered regional cardiac wall mechanics are associated with differential cardiomyocyte calcium handling due to nebulin mutations in preclinical inherited dilated cardiomyopathy. *J Mol Cell Cardiol.* 2013; 60:151-60.
10. Abeykoon S, Sargent M, **Wansapura JP**. Quantitative myocardial perfusion in mice based on the signal intensity of flow sensitized CMR. *J Cardiovasc Magn Reson* 2012, 14(1):73.
11. Malatesta-Muncher R, **Wansapura J**, Taylor M, Lindquist D, Hor K, Mitsnemes M. Early cardiac dysfunction in pediatric patients on maintenance dialysis and post kidney transplant. *Pediatr Nephrol* 2012, 27(7):1157-1164.
12. Mazur W, Hor KN, Germann JT, Fleck RJ, Al-Khalidi HR, **Wansapura JP**, Chung ES, Taylor MD, Jefferies JL, Woodrow Benson D, Gottliebson WM. Patterns of left ventricular remodeling in patients with Duchenne Muscular Dystrophy: a cardiac MRI study of ventricular geometry, global function, and strain. *Int J Cardiovasc Imaging* 2012;28(1):99-107.
13. **Wansapura JP**, Millay DP, Dunn RS, Molkenstein JD, Benson DW. Magnetic resonance imaging assessment of cardiac dysfunction in delta-sarcoglycan null mice. *Neuromuscul Disord* 2011;21(1):68-73.
14. Hor KN, **Wansapura JP**, Al-Khalidi HR, Gottliebson WM, Taylor MD, Czonek RJ, Nagueh SF, Akula N, Chung ES, Benson DW, Mazur W. Presence of mechanical dyssynchrony in duchenne muscular dystrophy. *J Cardiovasc Magn Reson* 2011;13:12.
15. Dasgupta S, Das P, **Wansapura J**, Hariharan P, Pratt R, Witte D, Myers MR, Banerjee RK. Reduction of Noise From MR Thermometry Measurements During HIFU Characterization Procedures. *Journal of Nanotechnology in Engineering and Medicine* 2011;2(2):024501.

16. Acehan D, Vaz F, Houtkooper RH, James J, Moore V, Tokunaga C, Kulik W, **Wansapura J**, Toth MJ, Strauss A, Khuchua Z. Cardiac and skeletal muscle defects in a mouse model of human Barth syndrome. *J Biol Chem* 2011;286(2):899-908.
17. **Wansapura JP**, Hor KN, Mazur W, Fleck R, Hagenbuch S, Benson DW, Gottliebson WM. Left ventricular T2 distribution in Duchenne muscular dystrophy. *J Cardiovasc Magn Reson* 2010;12:14.
18. Sundaram N, Taylor A, Mendelsohn L, **Wansapura J**, Wang X, Higashimoto T, Pauciulo MW, Gottliebson W, Kalra VK, Nichols WC, Kato GJ, Malik P. High levels of placenta growth factor in sickle cell disease promote pulmonary hypertension. *Blood* 2010;116(1):109-112.
19. Hor KN, Gottliebson WM, Carson C, Wash E, Cnota J, Fleck R, **Wansapura J**, Klimeczek P, Al-Khalidi HR, Chung ES, Benson DW, Mazur W. Comparison of magnetic resonance feature tracking for strain calculation with harmonic phase imaging analysis. *JACC Cardiovasc Imaging* 2010;3(2):144-151.
20. Hagenbuch SC, Gottliebson WM, **Wansapura J**, Mazur W, Fleck R, Benson DW, Hor KN. Detection of progressive cardiac dysfunction by serial evaluation of circumferential strain in patients with Duchenne muscular dystrophy. *Am J Cardiol* 2010;105(10):1451-1455.
21. Dasgupta S, **Wansapura J**, Hariharan P, Pratt R, Witte D, Myers MR, Banerjee RK. HIFU lesion volume as a function of sonication time, as determined by MRI, histology, and computations. *J Biomech Eng* 2010;132(8):081005.
22. Zhao X, Pratt R, **Wansapura J**. Quantification of aortic compliance in mice using radial phase contrast MRI. *J Magn Reson Imaging* 2009;30(2):286-291.
23. Hor KN, **Wansapura J**, Markham LW, Mazur W, Cripe LH, Fleck R, Benson DW, Gottliebson WM. Circumferential strain analysis identifies strata of cardiomyopathy in Duchenne muscular dystrophy: a cardiac magnetic resonance tagging study. *J Am Coll Cardiol* 2009;53(14):1204-1210.
24. Diwan A, **Wansapura J**, Syed FM, Matkovich SJ, Lorenz JN, Dorn GW, 2nd. Nix-mediated apoptosis links myocardial fibrosis, cardiac remodeling, and hypertrophy decompensation. *Circulation* 2008;117(3):396-404.
25. **Wansapura JP**. Abdominal fat-water separation with SSFP at 3 Tesla. *Pediatr Radiol* 2007;37(1):69-73.
26. Diwan A, Krenz M, Syed FM, **Wansapura J**, Ren X, Koesters AG, Li H, Kirshenbaum LA, Hahn HS, Robbins J, Jones WK, Dorn GW. Inhibition of ischemic cardiomyocyte apoptosis through targeted ablation of Bnip3 restrains postinfarction remodeling in mice. *J Clin Invest* 2007;117(10):2825-2833.
27. **Wansapura J**, Gottliebson W, Crotty E, Fleck R. Cyclic variation of T1 in the myocardium at 3 T. *Magn Reson Imaging* 2006;24(7):889-893.
28. **Wansapura J**, Fleck R, Crotty E, Gottliebson W. Frequency scouting for cardiac imaging with SSFP at 3 Tesla. *Pediatr Radiol* 2006;36(10):1082-1085.

29. **Wansapura JP**, Daniel BL, Vigen KK, Butts K. In vivo MR thermometry of frozen tissue using R2\* and signal intensity. *Acad Radiol* 2005;12(9):1080-1084.
30. Butts K, Daniel BL, Chen L, Bouley DM, **Wansapura J**, Maier SE, Dumoulin C, Watkins R. Diffusion-weighted MRI after cryosurgery of the canine prostate. *Magnetic resonance imaging. J Magn Reson Imaging* 2003;17(1):131-135.
31. Chen L, **Wansapura JP**, Heit G, Butts K. Study of laser ablation in the in vivo rabbit brain with MR thermometry. *J Magn Reson Imaging* 2002;16(2):147-152.
32. **Wansapura JP**, Daniel BL, Pauly J, Butts K. Temperature mapping of frozen tissue using eddy current compensated half excitation RF pulses. *Magn Reson Med* 2001;46(5):985-992.
33. Butts K, Sinclair J, Daniel BL, **Wansapura J**, Pauly JM. Temperature quantitation and mapping of frozen tissue. *J Magn Reson Imaging* 2001;13(1):99-104.
34. **Wansapura JP**, Holland SK, Dunn RS, Ball WS, Jr. NMR relaxation times in the human brain at 3.0 tesla. *J Magn Reson Imaging* 1999;9(4):531-538.

#### **PRESENTATIONS AND PEER-REVIEWED ABSTRACTS**

1. MS Bandara, **JP Wansapura**, Gray Level Co-occurrence Matrix in Polar Orientation, Annual Research Symposium 2018, University of Colombo.
2. DK. Hewadikaram, HE Perera, DC Wickramrathna, Mudhitha Bandara, AN Pattivedana, HE Jayaweera, **JP Wansapura**, Development of an ex-vivo Ultrasound system for tissue evaluation, Annual Research Symposium 2018, University of Colombo.
3. MS Bandara, Chirath Sulalith, Narayana Krishna Rolla, Indrajit Saha, Aruna Pallewatte, **Janaka P. Wansapura**, Renal Relaxivity Mapping at 3.0 T for the Diagnosis of Chronic Kidney Disease – Initial Experience. *Proc., International Society of Magnetic Resonance in Medicine, 27th Scientific Meeting, Paris, 2018.*
4. F. Iqbal, A. S. Pallewatte and **J. P. Wansapura**, "Texture analysis of ultrasound images of chronic kidney disease," 2017 Seventeenth International Conference on Advances in ICT for Emerging Regions (ICTer), Colombo, 2017, pp. 1-5.
5. RMUKGMS Bandara, **J Wansapura**, Factors affecting T1 accuracy and quantification of fibrosis, Annual Research Symposium 2016, University of Colombo, 260.
6. HMSK Herath, **J Wansapura**, Quantification of diastolic dysfunction and dyssynchrony in sickle cell disease by MRI tagging. Annual Research Symposium 2016, University of Colombo, 267.

7. N Bakeer, J James, S Roy, J Wansapura, SK Shanmukhappa, H Osinska, et al, Sickle Cell Anemia Mice Develop A Unique Cardiomyopathy Characterized By A Progressive Restrictive Physiology And Abnormal Electrophysiology That Predisposes To Sudden Death , *Pediatric Blood & Cancer* 63, S41-S42
8. Arumugam P, Mullins ES, Shaw MA, et al. Diminished Multi-Organ Pathologies and Inflammation Associated With Sickle Cell Disease In Mice With Genetically Limited Prothrombin Levels. *Blood* 2013;122.
9. Arshani Wansapura, Scott Dunn, Randy Giaquinto, **Janaka Wansapura**, Simultaneous LV pressure-volume measurement in mice with MRI and ventricular catheterization, SCMR/ISMRM workshop - New Horizons in High Field Cardiovascular MR: Promises and Progress, San Francisco, CA, 2013
10. Sumeda Abeykoon, and **Janaka Wansapura**, ASL based myocardial perfusion in mice at 7 Tesla, SCMR/ISMRM workshop - New Horizons in High Field Cardiovascular MR: Promises and Progress, San Francisco, CA, 2013
11. DeVela G, Moore V, Schulte C, **Wansapura J** and James J. Non-invasive assessment of right ventricular function in mice using tricuspid annular plane excursion. American Society of Echocardiography Scientific Sessions, Minneapolis, MN, June 2013.
12. Krishnamurthy V, **Wansapura J**, Evans A, et al. Cardiac neural crest-specific vascular smooth muscle cell dysregulation results in regional proteoglycan misexpression and biomechanical dysfunction in a mouse model of aortopathy. *Glycobiology* 2012;22:1560-.
13. Sumeda Abeykoon, and **Janaka Wansapura**, Quantification of myocardial perfusion based on signal intensity of flow sensitized MRI, Proc., Society for Cardiovascular Magnetic Resonance Meeting, Orlando, 2012.
14. Anne-Cecile Huby, Sumeda Abeykoon, Scott Dunn and **Janaka Wansapura**, Early signs of cardiomyopathy in delta-sarcoglycan null mice, Proc., International Society of Magnetic Resonance in Medicine, 20th Scientific Meeting, Melbourne, 2012.
15. Arshani Wansapura, Scott Dunn, Randy Giaquinto, **Janaka Wansapura**, Assessment of cardiac function in mice using ventricular catheterization and MRI derived pressure-volume loops, *FASEBJ*, 26:LB607, 2012
16. **Wansapura, JP**, Hor, K, Mazur W, et al., Serial assessment of myocardial T2 in Duchene muscular. Proc., Society for Cardiovascular Magnetic Resonance Meeting, Nice, France, February, 2011.
17. Ashish Das, William Gottliebson, **Janaka Wansapura**, Rupak K. Banerjee,. Development of a Methodology for Direct Utilization of Phase-Contrast MRI in Hemodynamic Computations. ASME 2011 Summer Bioengineering Conference, June 22-25, 2011, Farmington, Pennsylvania.
18. **Wansapura J**, Le T, Chaves IJ, Amin RS, VanDyke RD, Fleck RJ. Dynamic 3D Pulmonary Perfusion in Cystic Fibrosis. The Society for Pediatric Radiology Annual Meeting, May 27-June1, 2011, London, UK.

19. Malatesta-Muncher R, **Wansapura J**, Lindquist D, Hor K, Taylor M, and Mitsnefes M., Early biomarkers of cardiac dysfunction in pediatric chronic kidney disease: cardiac MR study. Pediatric Academic Societies and Asian Society for Pediatric Research, April 30- May 3, 2011, Denver Colorado.
20. Le T, **Wansapura J**, Chaves IJ, Amin RS, VanDyke RD, Fleck RJ. Quantitative Assessment of Pulmonary Perfusion with Time-Resolved Free-Breathing 3D MRI Angiography in Normal Children - Pilot Study. Proc., Society for Pediatric Radiology Annual Meeting, April 13-17, 2010, Boston, Massachusetts.
21. McPhail GL, Fenchel MC, VanDyke R, **Wansapura JP**, Fleck RJ, and Amin RS. An MRI study of Pulmonary Perfusion in Cystic Fibrosis. Proc., American Thoracic Society (ATS) International, May 14-19, 2010, New Orleans, LA.
22. Mikolaj I, Gottliebson WM, Mazur W, **Wansapura J**, Fleck R, Benson DW, Hor KN. Circumferential Strain Analysis Reveals Occult Cardiac Dysfunction in Palliated Single Ventricle Patients, Proc., Society for Cardiovascular Magnetic Resonance Meeting, Phoenix, AZ, January 2010.
23. Smith K, Hor KN, Mazur W, **Wansapura J**, Fleck R, Benson DW, Gottliebson WM. Cardiac MRI Strain Analysis Demonstrates Systemic Right Ventricular Dysfunction Late after Atrial Switch Procedure Despite Normal Ejection Fraction, Proc., Society for Cardiovascular Magnetic Resonance Meeting, Phoenix, AZ, January 2010.
24. Hagenbuch S, Hor KN, Mazur W, Fleck R, Benson DW, Gottliebson WM, **Wansapura J**. Turner syndrome aortopathy demonstrated by cardiac MRI-determined aortic pulse wave velocity, Society for Cardiovascular Magnetic Resonance Meeting, Phoenix, AZ, January 2010.
25. **Wansapura J**, Millay D, Molkentin J, Benson DW. Assessment of Myocardial Ca<sup>2+</sup> Dysregulation Using Mn Enhanced MRI 2009; Hawaii. Proc., ISMRM, 17th Scientific Meeting.
26. **JP. Wansapura**, R Fleck, KN Hor, W Mazur, LH Cripe, DW Benson, WM Gottliebson, Left ventricular T2 distribution in Duchenne Muscular Dystrophy, Proc. Society of Cardiac MRI, Miami, February 2009.
27. Kissoon N, Hor KH, **Wansapura JP**, Mazur W, Fleck RJ, Puchalski MD, Benson DW, Gottliebson WM: Increased Susceptibility of the Left Lateral Free Wall to Myocardial Delayed Enhancement in Duchenne Muscular Dystrophy: Progressive Regional Systolic Dysfunction Demonstrable by CMR Regional Strain Analysis. Society of Cardiac MRI, Orlando FL Jan 2009.
28. Janaka Wansapura, Robert Fleck, **Kan N Hor**, Wojciech Mazur, Woodrow Benson, and William M Gottliebson<sup>1</sup> Left Ventricular T2 Distribution in Duchenne Muscular Dystrophy. Journal of Cardiovascular Magnetic Resonance 2009, 11(Suppl 1):O51. Presented at the Society for Cardiovascular Magnetic Resonance Meeting, Orlando, FL, February 2009.
29. Hor KN, Wash E, Fleck RJ, **Wansapura JP**, Cnota JF, Benson DW, Gottliebson WM, Mazur W: Novel Technique of Strain Assessment Utilizing Feature Tracking in Nontagged SSFP Images: Validation with Tagged Strain Analysis. Society of Cardiac MRI, Orlando FL Jan 2009

30. Gottliebson WM, Germann JT, Fleck RJ, Cripe LH, Mazur W, **Wansapura JP**, Michelfelder EC, Benson DW, Hor KN: Cardiac MRI Study of Duchenne Cardiac Dysfunction: Is It a Dilated Cardiomyopathy? American College of Cardiology Ann. Scientific Sessions, Orlando FL Mar 2009
31. Hor KN, Hagenbuch SC, Fleck RJ, **Wansapura JP**, Mazur W, Benson DW, Gottliebson WM: Serial Evaluation of Circumferential Strain for Monitoring of Progressive Cardiac Dysfunction in Duchenne Muscular Dystrophy Patients. American College of Cardiology Ann. Scientific Sessions, Orlando FL Mar 2009
32. Gottliebson WM, Mazur W, **Wansapura J**, Benson DW, Hor KN, "Dyssynchrony in Duchenne Muscular Dystrophy Demonstrated by Tagged MRI Analysis is Independent of Ejection Fraction", American Heart Association Annual Scientific Sessions, New Orleans, LA November 09, 2008.
33. McBride M, Markham L, Cripe L, Kalra M, Amin R, **Wansapura J**, Gottliebson W: Relationship of Structural and Functional Cardiac Abnormalities to Respiratory Status in Duchenne Muscular Dystrophy Society of Cardiac MRI, February 2008
34. Gottliebson W, Tipton A, Hor K, Fleck R, Crotty E, Germann J, **Wansapura J**: Normal human biventricular volume and mass values in children ages 5- 10 years using steady state free precession MRI Society of Cardiac MRI, February 2008
35. Tipton A, Fleck R, Crotty E, Helton K, Hor K, **Wansapura J**, Gottliebson W: Interobserver Variability Differences for Cardiac MRI Right Ventricular Volumetry and Mass Measures Between Standard and "Modified" Right Ventricular Short Axis Imaging in Patients with Chronic Pulmonary Insufficiency JCMR 2007; 9 (2) 507
36. Hor K, Kan N. Hor, Markham L, **Wansapura J**, Mazur W, Cripe L, Benson DW, Gottliebson W: Abnormal Myocardial Circumferential Strain Precedes Global Functional Decline in Duchenne Muscular Dystrophy: A CMR Tagging Study Using HARP Analysis. AHA Ann Sci. Sessions November 2007, Orlando, FL.
37. McBride M, Markham L, Cripe L, Kalra M, Amin R, **Wansapura J**, Gottliebson W: Relationship of Structural and Functional Cardiac Abnormalities to Respiratory Status in Duchenne Muscular Dystrophy Society of Cardiac MRI, February 2008
38. Abhinav Diwan, **Janaka Wansapura**, Faisal Syed, Scot J Matkovich, John N Lorenz and Gerald W Dorn 2<sup>nd</sup>. Inhibiting Reactive Apoptosis by Cardiac-specific Nix Ablation Prevents Decompensation of Pathological Hypertrophy. Presented at the American Heart Association Annual Scientific Sessions, Orlando FL 2007.
39. Abhinav Diwan, **Janaka Wansapura**, Faisal Syed, Scot J Matkovich, John N Lorenz and Gerald W Dorn 2<sup>nd</sup>. Inhibiting Reactive Apoptosis by Cardiac-specific Nix Ablation Prevents Decompensation of Pathological Hypertrophy. Presented at the American Heart Association Annual Scientific Sessions, Orlando FL 2007.
40. Faisal Syed, Maik Krenz, **Janaka Wansapura**, Xiaoping Ren, Keith Jones, Jeffrey Robbins, Gerald Dorn 2<sup>nd</sup> and Abhinav Diwan. Inhibition of Ischemic Cardiomyocyte Apoptosis Through Targeted Ablation of Bnip3 Restrains Post-infarction Remodeling. Basic Cardiovascular Sciences Symposium, Keystone, CO, July-August 2007.



41. **Wansapura J**, Zhao X, Hui D. Fat Water Separation in Mice. Proc., ISMRM, 15th Scientific Meeting, Berlin, 2007.
42. **Wansapura J**, Zhao X, Gottliebson W. Measurement of Pulse Wave Velocity in the Aortic Arch by Tracking the Velocity Peak. Proc., ISMRM, 15th Scientific Meeting, Berlin, 2007.
43. Zhao X, Pratt, R, Hui D, **Wansapura J**. Aortic Compliance of Mice at 7T Using Radial Phase Contrast Cine Imaging. Proc., ISMRM, 15th Scientific Meeting, Berlin, 2007.
44. Gottliebson WM, Markham L, **Wansapura J**, Crotty E, Fleck R, Tipton A, Cripe L. Left Ventricular Torsion is Increased in Patients with Duchenne Muscular Dystrophy Independent of Changes in LV Systolic Function. Society of Cardiac Magnetic Resonance Annual Meeting, January, 2006 Miami FL.
45. Gottliebson WM, Fleck R, Crotty E, **Wansapura J**. Feasibility of Non-sedated, Free Breathing Cardiac Magnetic Resonance Imaging in Children Ages 5 -10 Years. Society of Cardiac Magnetic Resonance Annual Meeting, January 20, 2006 Miami FL.
46. Junmei Zhong, Bernard Dardzinski, Janaka Wansapura, "Wavelet based Multiscale Level-Set Curve Evolution in image denoising for MR Imaging", The Proceedings of SPIE Medical Imaging 2006: Image Processing, Feb 11-16, 2006, San Diego, CA.
47. **J.P. Wansapura**, W. Gottliebson, Cyclic variation of T1 in Myocardium at 3T. The International Society for Magnetic Resonance in Medicine. Annual Scientific Meeting, May, 2005, Miami, FL.
48. X. Zhao, B. Hargreaves, **J.P. Wansapura**, Phase sensitive SSFP imaging at 3T. The International Society for Magnetic Resonance in Medicine. Annual Scientific Meeting, May, 2005, Miami, FL.
49. R.S. Dunn. M. Krenz, **J.P. Wansapura**, "Cardiac MRI in Mice at 7 Tesla". The Society for Pediatric Radiology Annual Meeting, May 4-7, 2005 in New Orleans, Louisiana.
50. **J.P. Wansapura**, R.C. Fleck, E.C. Crotty, "Fat Suppression with TrueFISP Imaging at 3T". The Society for Pediatric Radiology Annual Meeting, May 4-7, 2005 in New Orleans, Louisiana.
51. Gottliebson WM, Markham L, Crotty EC, Fleck RC, **Wansapura J**, Wong B. "Comparison of Cardiac MRI to Transthoracic Echocardiography in the Evaluation of Ventricular Dysfunction in Adolescents with Duchenne Muscular Dystrophy". Proc., SCMR, Jan 2005 San Francisco, CA.
52. Junmei Zhong, Bernard Dardzinski, Scott Holland, **Janaka Wansapura**, and Vincent Schmithorst "Wavelet-based multiscale anisotropic diffusion for MR imaging", Proceedings of SPIE Medical Imaging 2005: Image Processing, Feb 13-17, 2005, San Diego, CA, vol. 5747, pp.1046-1053, 2005.
53. Gottliebson WM, Fleck RC, Crotty EC, **Wansapura J**. "Phase-Sensitive SSFP Imaging with Fat Suppression May Reduce Scanning Time in MRI Evaluation of Arrhythmogenic Right Ventricular Dysplasia: A Pilot Study". Proc., SCMR, Jan 2005 San Francisco, CA.

54. Larry W. Markham, Eric Crotty, **Janaka Wansapura**, Brenda L. Wong, Linda H. Cripe, William M. Gottliebson, The evaluation of ventricular function by cardiac magnetic resonance imaging in skeletal myopathies 9<sup>th</sup> International Congress of the World Muscle Society, 2004.
55. **J.P. Wansapura**, J. Williams, O. Williams, G. Mandybur, A Simple Algorithm for Curvilinear Reformatting of 3D MRI Data. Proc., ISMRM, 11th Scientific Meeting, Toronto, 2003.
56. **J.P. Wansapura**, B. Daniel, J. Pauly, K. Butts, Signal Intensity and R2\* as Models for MR thermometry in frozen tissue. Proc., ISMRM, 10th Scientific Meeting, Hawaii, 2002.
57. **J.P. Wansapura**, B.L. Daniel, K. Butts, Characterization of MR signal in frozen tissue. Proc., ISMRM workshop on limits of detection in NMR, Berkeley, June 2001.
58. K. Butts, B. Daniel, **J. Wansapura**, L. Chen, S. Maier, C. Dumoulin, R. Watkins, Diffusion and contrast enhanced MRI after cryosurgery of the in vivo canine prostate. Proc., ISMRM, 9th Scientific Meeting, Glasgow, 2001.
59. **J.P. Wansapura**, B.L. Daniel, K. Butts, In vivo Temperature mapping of frozen tissue using R2\*. Proc., ISMRM, 9th Scientific Meeting, Glasgow, 2001.
60. L. Chen, **J.P. Wansapura**, G. Heit, K. Butts. Study of in vivo Laser ablated tissue damage using MR thermometry. Proc., ISMRM, 9th Scientific Meeting, Glasgow, 2001.
61. **J.P. Wansapura**, Bruce L. Daniel, Kim Butts, T1 relaxation times in frozen tissue at 0.5 Tesla and implications for MR monitoring of cryosurgery. Chicago World Congress, 2000.
62. L. Chen, **J.P. Wansapura**, G. Heit, K. Butts, Validation of the in vivo MRI thermal coefficient during laser ablation in the rabbit brain. Chicago World Congress, 2000.
63. **J.P. Wansapura**, Bruce L. Daniel, Kim Butts, Temperature mapping of frozen tissue using eddy current compensated half excitation RF pulses. Proc., ISMRM, 8th Scientific Meeting, Denver, 2000.
64. K. Butts, B. Daniel, J. Sinclair, **J.P. Wansapura**, Temperature quantitation and mapping of frozen tissue. Proc., ISMRM, 7th Scientific Meeting, p397, 1999.
65. **J.P. Wansapura**, S.K. Holland, A model which predicts NMR line shape for protons diffusing in susceptibility induced field gradients: Simulations and Measurements. Proc., ISMRM, 7th Scientific Meeting, p655, Philadelphia, 1999.
66. S.K. Holland, P.M. Williams, R.S. Dunn, **J.P. Wansapura**, W.S. Ball, A capillary phantom for testing perfusion-weighted MRI. Proc., ISMRM, 5th Scientific Meeting, p1456, Vancouver, 1997.
67. **J.P. Wansapura**, S.K. Holland, R.S. Dunn, W.S. Ball, 3T study of relaxation times in the human brain. Proc., ISMRM, 5th Scientific Meeting, p803, Vancouver, 1997.

## **MENTORSHIP**

- 2019 – (MPhil, Thesis adviser) Mavidu Iddagoda, Department of Physics, University of Colombo
- 2016 – (MPhil, Thesis adviser) Muditha Bandara, Department of Physics, University of Colombo
- 2016 – (MPhil, Thesis adviser) Dulitha Hewadikaram, Department of Physics, University of Colombo
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