



Robert Herfkens

Professor of Radiology (Cardiovascular Imaging), Emeritus

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Radiology
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Co-director of PET/CT, Department of Radiology, Stanford University, (2002-2004)
- Director of Destination Digital (PACS#digital imaging transfer), Department of Radiology, Stanford University, (2001- present)
- Director of MRI, Department of Radiology, Stanford University, (1990- present)
- Associate Chair for Clinical Technology, Department of Radiology, Stanford University, (2005- present)

HONORS AND AWARDS

- Chair, Safety Committee, International Society of Magnetic Resonance in Medicine (1996-1997)
- President, International Society of Magnetic Resonance in Medicine (1998-1999)
- Fellow, International Society of Magnetic Resonance in Medicine (2001)
- Lauterbur Award, Society of Computed Body Tomography and MR ('01,02,03,04, 2005,2009)

PROFESSIONAL EDUCATION

- None, Creighton University , Chemistry
- M.D., Loyola-Stritch SOM , Medicine (1974)
- Residency, Loyola-Stritch , Internal Medicine (1976)
- Residency, UCSF , Radiology (1978)
- Research Fellowship, UCSF , Nuclear Medicine (1979)

COMMUNITY AND INTERNATIONAL WORK

- Multiple Committees

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Imaging of cardiovascular diseases with CT, magnetic resonance imaging and spectroscopy

CLINICAL TRIALS

- Cervical Nodal Mets in Squamous Cell Carcinoma of H&N - MRI, FDG-PET, & Histopathologic Correlation, Not Recruiting
- Combined 18F-NaF/18F-FDG PET/MRI for Detection of Skeletal Metastases, Not Recruiting
- Evaluating Sunitinib Therapy in Renal Cell Carcinoma Using F-18 FDG PET/CT and DCE MRI, Not Recruiting

Publications

PUBLICATIONS

- **Greater asymmetric wall shear stress in Sievers' type 1/LR compared with 0/LAT bicuspid aortic valves after valve-sparing aortic root replacement** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Stephens, E. H., Hope, T. A., Kari, F. A., Kvitting, J. E., Liang, D. H., Herfkens, R. J., Miller, D. C.
2015; 150 (1): 59-68
- **Simultaneous Whole-Body Time-of-Flight F-18-FDG PET/MRI A Pilot Study Comparing SUVmax With PET/CT and Assessment of MR Image Quality** *CLINICAL NUCLEAR MEDICINE*
Iagaru, A., Mittra, E., Minamimoto, R., Jamali, M., Levin, C., Quon, A., Gold, G., Herfkens, R., Vasanaawala, S., Gambhir, S. S., Zaharchuk, G.
2015; 14 (1): 1-8
- **Simultaneous whole-body time-of-flight 18F-FDG PET/MRI: a pilot study comparing SUVmax with PET/CT and assessment of MR image quality.** *Clinical nuclear medicine*
Iagaru, A., Mittra, E., Minamimoto, R., Jamali, M., Levin, C., Quon, A., Gold, G., Herfkens, R., Vasanaawala, S., Gambhir, S. S., Zaharchuk, G.
2015; 40 (1): 1-8
- **Respiratory-Induced 3D Deformations of the Renal Arteries Quantified With Geometric Modeling During Inspiration and Expiration Breath-Holds of Magnetic Resonance Angiography** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Suh, G., Choi, G., Draney, M. T., Herfkens, R. J., Dalman, R. L., Cheng, C. P.
2013; 38 (6): 1325-1332
- **Putting the Fat and Water Protons to Work for You: A Demonstration Through Clinical Cases of How Fat-Water Separation Techniques Can Benefit Your Body MRI Practice** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Rampton, J. W., Young, P. M., Fidler, J. L., Hartman, R. P., Herfkens, R. J.
2013; 201 (6): 1303-1308
- **Evaluation of Marfan patients status post valve-sparing aortic root replacement with 4D flow** *MAGNETIC RESONANCE IMAGING*
Hope, T. A., Kvitting, J. E., Hope, M. D., Miller, D. C., Markl, M., Herfkens, R. J.
2013; 31 (9): 1479-1484
- **Improvement of gadoxetate arterial phase capture with a high spatio-temporal resolution multiphase three-dimensional SPGR-dixon sequence.** *Journal of magnetic resonance imaging*
Hope, T. A., Saranathan, M., Petkovska, I., Hargreaves, B. A., Herfkens, R. J., Vasanaawala, S. S.
2013; 38 (4): 938-945
- **Respiration-induced Deformations of the Superior Mesenteric and Renal Arteries in Patients with Abdominal Aortic Aneurysms.** *Journal of vascular and interventional radiology*
Suh, G., Choi, G., Herfkens, R. J., Dalman, R. L., Cheng, C. P.
2013; 24 (7): 1035-1042
- **Pilot prospective evaluation of 99mTc-MDP scintigraphy, 18F NaF PET/CT, 18F FDG PET/CT and whole-body MRI for detection of skeletal metastases.** *Clinical nuclear medicine*
Iagaru, A., Young, P., Mittra, E., Dick, D. W., Herfkens, R., Gambhir, S. S.
2013; 38 (7): e290-6
- **2013 ACCF/ACR/ASE/ASNC/SCCT/SCMR Appropriate Utilization of Cardiovascular Imaging in Heart Failure: An Executive Summary A Joint Report of the ACR Appropriateness Criteria (R) Committee and the ACCF Appropriate Use Criteria Task Force** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
White, R. D., Patel, M. R., Abbara, S., Bluemke, D. A., Herfkens, R. J., Picard, M., Shaw, L. J., Silver, M., Stillman, A. E., Udelson, J.
2013; 10 (7): 493-500

- **Pilot prospective evaluation of 99mTc-MDP scintigraphy, 18F NaF PET/CT, 18F FDG PET/CT and whole-body MRI for detection of skeletal metastases.** *Clinical nuclear medicine*
Iagaru, A., Young, P., Mittra, E., Dick, D. W., Herfkens, R., Gambhir, S. S.
2013; 38 (7): e290-6
- **2013 ACCF/ACR/ASE/ASNC/SCCT/SCMR Appropriate Utilization of Cardiovascular Imaging in Heart Failure: A Joint Report of the American College of Radiology Appropriateness Criteria Committee and the American College of Cardiology Foundation Appropriate Use Criteria Task Force.** *Journal of the American College of Cardiology*
Patel, M. R., White, R. D., Abbara, S., Bluemke, D. A., Herfkens, R. J., Picard, M., Shaw, L. J., Silver, M., Stillman, A. E., Udelson, J.
2013; 61 (21): 2207-2231
- **Intravaginal Gel for Staging of Female Pelvic Cancers-Preliminary Report of Safety, Distention, and Gel-Mucosal Contrast During Magnetic Resonance Examination** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Young, P., Daniel, B., Sommer, G., Kim, B., Herfkens, R.
2012; 36 (2): 253-256
- **Rapid Pediatric Cardiac Assessment of Flow and Ventricular Volume With Compressed Sensing Parallel Imaging Volumetric Cine Phase-Contrast MRI** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Hsiao, A., Lustig, M., Alley, M. T., Murphy, M., Chan, F. P., Herfkens, R. J., Vasanawala, S. S.
2012; 198 (3): W250-W259
- **Cardiac Imaging: Part 2, Normal, Variant, and Anomalous Configurations of the Coronary Vasculature** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Young, P. M., Gerber, T. C., Williamson, E. E., Julsrud, P. R., Herfkens, R. J.
2011; 197 (4): 816-826
- **Comparison of MR and Contrast Venography of the Cervical Venous System in Multiple Sclerosis** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Zaharchuk, G., Fischbein, N. J., Rosenberg, J., Herfkens, R. J., Dake, M. D.
2011; 32 (8): 1482-1489
- **Hemodynamic Changes Quantified in Abdominal Aortic Aneurysms with Increasing Exercise Intensity Using MR Exercise Imaging and Image-Based Computational Fluid Dynamics** *ANNALS OF BIOMEDICAL ENGINEERING*
Suh, G., Les, A. S., Tenforde, A. S., Shadden, S. C., Spilker, R. L., Yeung, J. J., Cheng, C. P., Herfkens, R. J., Dalman, R. L., Taylor, C. A.
2011; 39 (8): 2186-2202
- **Intraprocedure Visualization of the Esophagus Using Interventional C-arm CT as Guidance for Left Atrial Radiofrequency Ablation** *ACADEMIC RADIOLOGY*
Tognolini, A., Al-Ahmad, A., Wang, P. J., Hsia, H. H., Herfkens, R. J., Girard, E., Moore, T., Fahrig, R.
2011; 18 (7): 850-857
- **Improved cardiovascular flow quantification with time-resolved volumetric phase-contrast MRI** *PEDIATRIC RADIOLOGY*
Hsiao, A., Alley, M. T., Massaband, P., Herfkens, R. J., Chan, F. P., Vasanawala, S. S.
2011; 41 (6): 711-720
- **In-vivo Imaging of Femoral Artery Nitinol Stents for Deformation Analysis** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Ganguly, A., Simons, J., Schneider, A., Keck, B., Bennett, N. R., Herfkens, R. J., Coogan, S. M., Fahrig, R.
2011; 22 (2): 244-249
- **Quantification of Particle Residence Time in Abdominal Aortic Aneurysms Using Magnetic Resonance Imaging and Computational Fluid Dynamics** *ANNALS OF BIOMEDICAL ENGINEERING*
Suh, G., Les, A. S., Tenforde, A. S., Shadden, S. C., Spilker, R. L., Yeung, J. J., Cheng, C. P., Herfkens, R. J., Dalman, R. L., Taylor, C. A.
2011; 39 (2): 864-883
- **Respiratory Navigated Free Breathing 3D Spoiled Gradient-Recalled Echo Sequence for Contrast-Enhanced Examination of the Liver: Diagnostic Utility and Comparison With Free Breathing and Breath-Hold Conventional Examinations** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Young, P. M., Brau, A. C., Iwadata, Y., Vasanawala, S., Daniel, B. L., Tamrazi, A., Herfkens, R. J.
2010; 195 (3): 687-691
- **Quantification of Hemodynamics in Abdominal Aortic Aneurysms During Rest and Exercise Using Magnetic Resonance Imaging and Computational Fluid Dynamics** *ANNALS OF BIOMEDICAL ENGINEERING*
Les, A. S., Shadden, S. C., Figueroa, C. A., Park, J. M., Tedesco, M. M., Herfkens, R. J., Dalman, R. L., Taylor, C. A.
2010; 38 (4): 1288-1313

- **Navigated abdominal T1-W MRI permits free-breathing image acquisition with less motion artifact** *PEDIATRIC RADIOLOGY*
Vasanawala, S. S., Iwadate, Y., Church, D. G., Herfkens, R. J., Brau, A. C.
2010; 40 (3): 340-344
- **Quantifying In Vivo Hemodynamic Response to Exercise in Patients With Intermittent Claudication and Abdominal Aortic Aneurysms Using Cine Phase-Contrast MRI** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Tenforde, A. S., Cheng, C. P., Suh, G., Herfkens, R. J., Dalman, R. L., Taylor, C. A.
2010; 31 (2): 425-429
- **The Effect of Aging on Deformations of the Superficial Femoral Artery Resulting from Hip and Knee Flexion: Potential Clinical Implications** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Cheng, C. P., Choi, G., Herfkens, R. J., Taylor, C. A.
2010; 21 (2): 195-202
- **Nephrogenic Systemic Fibrosis in Rats Treated with Erythropoietin and Intravenous Iron** *RADIOLOGY*
Hope, T. A., High, W. A., LeBoit, P. E., Chaopathomkul, B., Rogut, V. S., Herfkens, R. J., Brasch, R. C.
2009; 253 (2): 390-398
- **Initial experience characterizing a type I endoleak from velocity profiles using time-resolved three-dimensional phase-contrast MRI** *JOURNAL OF VASCULAR SURGERY*
Hope, T. A., Zarins, C. K., Herfkens, R. J.
2009; 49 (6): 1580-1584
- **Nephrogenic Systemic Fibrosis in Patients With Chronic Kidney Disease Who Received Gadopentetate Dimeglumine** *INVESTIGATIVE RADIOLOGY*
Hope, T. A., Herfkens, R. J., Denianke, K. S., LeBoit, P. E., Hung, Y., Weil, E.
2009; 44 (3): 135-139
- **Practice Advisory on Anesthetic Care for Magnetic Resonance Imaging A Report by the American Society of Anesthesiologists Task Force on Anesthetic Care for Magnetic Resonance Imaging** *ANESTHESIOLOGY*
Ehrenwerth, J., Singleton, M. A., Bell, C., Brown, J. A., Clark, R. M., Connis, R. T., Herfkens, R., Litt, L., Mason, K. P., McClain, C. D., Nickinovich, D. G., Ryan, S. M., Sandberg, et al
2009; 110 (3): 459-479
- **HEMODYNAMICS IN ABDOMINAL AORTIC ANEURYSMS AT REST AND GRADED LEVELS OF EXERCISE** *ASME Summer Bioengineering Conference*
Suh, G. K., Tenforde, A., Shadden, S., Spilker, R., Cheng, C. P., Herfkens, R. J., Dalman, R. L., Taylor, C. A.
AMER SOC MECHANICAL ENGINEERS.2009: 383-384
- **VOLUMETRIC FLOW AT THE SUPRACELIAC AND INFRARENAL LEVELS IN PATIENTS WITH ABDOMINAL AORTIC ANEURYSM: WAVEFORMS AND ALLOMETRIC SCALING RELATIONSHIPS** *ASME Summer Bioengineering Conference*
Les, A. S., Yeung, J. J., Young, P. M., Herfkens, R. J., Dalman, R. L., Taylor, C. A.
AMER SOC MECHANICAL ENGINEERS.2009: 921-922
- **MRI and H-1 MRS of The Breast: Presence of a Choline Peak as Malignancy Marker is Related to k21 Value of the Tumor in Patients with Invasive Ductal Carcinoma** *BREAST JOURNAL*
Geraghty, P. R., van den Bosch, M. A., Spielman, D. M., Hunjan, S., Birdwell, R. L., Fong, K. J., Stables, L. A., Zakhour, M., Herfkens, R. J., Ikeda, D. M.
2008; 14 (6): 574-580
- **The aortopathy of bicuspid aortic valve disease has distinctive patterns and usually involves the transverse aortic arch** *33rd Annual Meeting of the Western-Thoracic-Surgical-Association*
Fazel, S. S., Mallidi, H. R., Lee, R. S., Sheehan, M. P., Liang, D., Fleischman, D., Herfkens, R., Mitchell, S., Miller, D. C.
MOSBY-ELSEVIER.2008: 901-U54
- **Technical advances in cardiovascular imaging.** *Seminars in thoracic and cardiovascular surgery*
Fleischmann, D., Liang, D. H., Herfkens, R. J.
2008; 20 (4): 333-339
- **Imaging of the thoracic aorta with time-resolved three-dimensional phase-contrast MRI: a review.** *Seminars in thoracic and cardiovascular surgery*
Hope, T. A., Herfkens, R. J.
2008; 20 (4): 358-364

- **Comparison of flow patterns in ascending aortic aneurysms and volunteers using four-dimensional magnetic resonance velocity mapping** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Hope, T. A., Markl, M., Wigstrom, L., Alley, M. T., Miller, D. C., Herfkens, R. J.
2007; 26 (6): 1471-1479
- **Molecular imaging techniques in body imaging** *RADIOLOGY*
Margolis, D. J., Hoffman, J. M., Herfkens, R. J., Jeffrey, R. B., Quon, A., Gambhir, S. S.
2007; 245 (2): 333-356
- **Detection of bone metastases: Assessment of integrated FDG PET/CT imaging** *RADIOLOGY*
Taira, A. V., Herfkens, R. J., Gambhir, S. S., Quon, A.
2007; 243 (1): 204-211
- **Hemodynamics in human abdominal aortic aneurysms during rest and simulated exercise** *ASME Summer Bioengineering Conference*
Les, A. S., Cheng, C. P., Blomme, M. T., Figueroa, C. A., LaDisa, J. F., Park, J. M., Herfkens, R. J., Dalman, R. L., Taylor, C. A.
AMER SOC MECHANICAL ENGINEERS.2007: 169-170
- **Water-selective spectral-spatial contrast-enhanced breast MRI for cancer detection in patients with extracapsular and injected free silicone** *MAGNETIC RESONANCE IMAGING*
Po, J., Margolis, D. J., Cunningham, C. H., Herfkens, R. J., Ikeda, D. M., Daniel, B. L.
2006; 24 (10): 1363-1367
- **Aortoiliac hemodynamic and morphologic adaptation to chronic spinal cord injury** *20th Annual Meeting of the Western-Vascular-Society*
Yeung, J. J., Kim, H. J., Abbruzzese, T. A., Vignon-Clementel, I. E., Draney-Blomme, M. T., Yeung, K. K., Perkash, I., Herfkens, R. J., Taylor, C. A., Dalman, R. L.
MOSBY-ELSEVIER.2006: 1254-65
- **Quantification of radial compression and deflection of superficial femoral artery due to musculoskeletal motion** *18th Annual Transcatheter Cardiovascular Therapeutics Symposium*
Choi, G., Cheng, C. P., Suh, G. Y., Donovan, F. D., Herfkens, R. J., Taylor, C. A.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2006: 108M-108M
- **In vivo axial and twisting deformations of the superficial femoral artery due to hip and knee flexion: The RESISTent consortium experience** *18th Annual Transcatheter Cardiovascular Therapeutics Symposium*
Cheng, C. P., Choi, G., Suh, G. Y., Donovan, F. D., Herfkens, R. J., Taylor, C. A.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.2006: 110M-110M
- **Indirect MR lymphangiography of the head and neck using conventional gadolinium contrast: A pilot study in humans** *45th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology (ASTRO)*
Loo, B. W., Draney, M. T., Sivanandan, R., Ruehm, S. G., Pawlicki, T., Xing, L., Herfkens, R. J., Le, Q.
ELSEVIER SCIENCE INC.2006: 462-68
- **Abdominal aortic hemodynamics in young healthy adults at rest and during lower limb exercise: quantification using image-based computer modeling** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Tang, B. T., Cheng, C. P., Draney, M. T., Wilson, N. M., Tsao, P. S., Herfkens, R. J., Taylor, C. A.
2006; 291 (2): H668-H676
- **In vivo MR angiographic quantification of axial and twisting deformations of the superficial femoral artery resulting from maximum hip and knee flexion** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Cheng, C. P., Wilson, N. M., Hallett, R. L., Herfkens, R. J., Taylor, C. A.
2006; 17 (6): 979-987
- **Peri-infarct ischemia determined by cardiovascular magnetic resonance evaluation of myocardial viability and stress perfusion predicts future cardiovascular events in patients with severe ischemic cardiomyopathy** *JOURNAL OF CARDIOVASCULAR MAGNETIC RESONANCE*
Tsukiji, M., Nguyen, P., Narayan, G., Hellinger, J., Chan, F., Herfkens, R., Pauly, J. M., McConnell, M. V., Yang, P. C.
2006; 8 (6): 773-779
- **The lactating breast: Contrast-enhanced MR Imaging of normal tissue and cancer** *RADIOLOGY*
Espinosa, L. A., Daniel, B. L., Vidarsson, L., Zakhour, M., Ikeda, D. M., Herfkens, R. J.
2005; 237 (2): 429-436

- **Magnetic resonance imaging of myocardial viability predicts future cardiovascular events in patients with severe ischemic cardiomyopathy** *78th Annual Scientific Session of the American-Heart-Association*
Tsukiji, M., Nguyen, P., Narayan, G., Hellinger, J., Chan, F. P., Herfkens, R., McConnell, M. V., Yang, P. C.
LIPPINCOTT WILLIAMS & WILKINS.2005: U529-U530
- **Contrast-enhanced MRI of ductal carcinoma in situ: Characteristics of a new intensity-modulated parametric mapping technique correlated with histopathologic findings** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Mariano, M. N., van den Bosch, M. A., Daniel, B. L., Nowels, K. W., Birdwell, R. L., Fong, K. J., Desmond, P. S., Plevritis, S., Stables, L. A., Zakhour, M., Herfkens, R. J., Ikeda, D. M.
2005; 22 (4): 520-526
- **Time-resolved three-dimensional magnetic resonance velocity mapping of aortic flow in healthy volunteers and patients after valve-sparing aortic root replacement** *30th Annual Meeting of the Western-Thoracic-Surgical-Association*
Markl, M., Draney, M. T., Miller, D. C., Levin, J. M., Williamson, E. E., Pelc, N. J., Liang, D. H., Herfkens, R. J.
MOSBY-ELSEVIER.2005: 456-63
- **Magnetic resonance imaging characteristics of fibrocystic change of the breast** *INVESTIGATIVE RADIOLOGY*
van den Bosch, M. A., Daniel, B. L., Mariano, M. N., Nowels, K. N., Birdwell, R. L., Fong, K. J., Desmond, P. S., Plevritis, S., Stables, L. A., Zakhour, M., Herfkens, R. J., Ikeda, D. M.
2005; 40 (7): 436-441
- **Cardiac CINE imaging with IDEAL water-fat separation and steady-state free precession** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Reeder, S. B., Markl, M., Yu, H. Z., Hellinger, J. C., Herfkens, R. J., Pelc, N. J.
2005; 22 (1): 44-52
- **Proximal pulmonary artery blood flow characteristics in healthy subjects measured in an upright posture using MRI: The effects of exercise and age** *12th Annual Meeting of the International-Society-for-Magnetic-Resonance-in-Medicine*
Cheng, C. P., Herfkens, R. J., Taylor, C. A., Feinstein, J. A.
JOHN WILEY & SONS INC.2005: 752-58
- **Peri-infarct ischemia determined by comprehensive MR evaluation of myocardial viability and stress perfusion predicts future cardiovascular events in patients with severe ischemic cardiomyopathy** *54th Annual Scientific Session of the American-College-of-Cardiology*
Tsukiji, M., Nguyen, P., Narayan, G., Hellinger, J., Chan, F., Herfkens, R., McConnell, M. V., Yang, P.
ELSEVIER SCIENCE INC.2005: 446A-446A
- **Pericardial lymph node involvement in lymphoma as identified on PET** *CLINICAL NUCLEAR MEDICINE*
Franc, B., Yoshida, E., Herfkens, R., Goris, M.
2004; 29 (11): 741-742
- **Quantification of vessel wall motion and cyclic strain using cine phase contrast MRI: In vivo validation in the porcine aorta** *MAGNETIC RESONANCE IN MEDICINE*
Draney, M. T., Arko, F. R., Alley, M. T., Markl, M., Herfkens, R. J., Pelc, N. J., Zarins, C. K., Taylor, C. A.
2004; 52 (2): 286-295
- **Blood flow conditions in the proximal pulmonary arteries and vena cavae: healthy children during upright cycling exercise** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Cheng, C. P., Herfkens, R. J., Lightner, A. L., Taylor, C. A., Feinstein, J. A.
2004; 287 (2): H921-H926
- **Time-resolved 3-dimensional velocity mapping in the thoracic aorta - Visualization of 3-directional blood flow patterns in healthy volunteers and patients** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
Markl, M., Draney, M. T., Hope, M. D., Levin, J. M., Chan, F. P., Alley, M. T., Pelc, N. J., Herfkens, R. J.
2004; 28 (4): 459-468
- **Images in cardiovascular medicine. Four-dimensional magnetic resonance velocity mapping in a healthy volunteer with pseudocoarctation of the thoracic aorta.** *Circulation*
Hope, M. D., Levin, J. M., Markl, M., Draney, M. T., Alley, M., Herfkens, R. J.
2004; 109 (25): 3221-3222
- **Upright seated pulmonary and caval blood flow characteristics during rest and cycling exercise using magnetic resonance imaging** *53rd Annual Scientific Session of the American-College-of-Cardiology*

- CHANG, C. P., Herfkens, R. J., Lightner, A. L., Taylor, C. A., Feinstein, J. A.
ELSEVIER SCIENCE INC.2004: 396A–396A
- **Steady-state free precession MR imaging: Improved myocardial tag persistence and signal-to-noise ratio for analysis of myocardial motion** *88th Scientific Assembly and Annual Meeting of the Radiological-Society-of-North-America*
Markl, M., Reeder, S. B., Chan, F. P., Alley, M. T., Herfkens, R. J., Pelc, N. J.
RADIOLOGICAL SOC NORTH AMERICA.2004: 852–61
 - **Breast magnetic resonance image screening and ductal lavage in women at high genetic risk for breast carcinoma** *CANCER*
Hartman, A. R., Daniel, B. L., Kurian, A. W., Mills, M. A., Nowels, K. W., Dirbas, F. M., Kingham, K. E., Chun, N. M., Herfkens, R. J., Ford, J. M., Plevritis, S. K.
2004; 100 (3): 479-489
 - **A pilot breast cancer screening trial for women at high inherited risk using clinical breast exam, mammography, breast magnetic resonance imaging, and ductal lavage: updated results after median follow-up of fourteen months.** *27th Annual San Antonio Breast Cancer Symposium*
Kurian, A. W., Daniel, B. L., Mills, M. A., Nowels, K. W., Ford, J. M., Plevritis, S. K., Kingham, K. E., Chun, N. M., Herfkens, R. J., Dirbas, F. M., Garber, J. M., Hartman, A. R.
SPRINGER.2004: S187–S188
 - **Helical MR: Continuously moving table axial imaging with radial acquisitions** *MAGNETIC RESONANCE IN MEDICINE*
Shankaranarayanan, A., Herfkens, R., Hargreaves, B. M., Polzin, J. A., Santos, J. M., Brittain, J. H.
2003; 50 (5): 1053-1060
 - **Abdominal aortic hemodynamic conditions in healthy subjects aged 50-70 at rest and during lower limb exercise: in vivo quantification using MRI** *ATHEROSCLEROSIS*
Cheng, C. P., Herfkens, R. J., Taylor, C. A.
2003; 168 (2): 323-331
 - **Inferior vena caval hemodynamics quantified in vivo at rest and during cycling exercise using magnetic resonance imaging** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*
Cheng, C. P., Herfkens, R. J., Taylor, C. A.
2003; 284 (4): H1161-H1167
 - **Time-resolved three-dimensional phase-contrast MRI** *10th Annual Meeting of the International-Society-for-Magnetic-Resonance-in-Medicine (ISMRM)*
Markl, M., Chan, F. P., Alley, M. T., Wedding, K. L., Draney, M. T., Elkins, C. J., Parker, D. W., Wicker, R., Taylor, C. A., Herfkens, R. J., Pelc, N. J.
JOHN WILEY & SONS INC.2003: 499–506
 - **Dynamic exercise imaging with an MR-Compatible stationary cycle within the general electric open magnet** *MAGNETIC RESONANCE IN MEDICINE*
Cheng, C. P., Schwandt, D. F., Topp, E. L., Anderson, J. H., Herfkens, R. J., Taylor, C. A.
2003; 49 (3): 581-585
 - **Comparison of abdominal aortic hemodynamics between men and women at rest and during lower limb exercise** *JOURNAL OF VASCULAR SURGERY*
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