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Professor of Radiology (Cardiovascular Imaging), Emeritus

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

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Bio

CLINICAL FOCUS

- Congenital Heart Disease
- Diagnostic Radiology
- Radiology

ACADEMIC APPOINTMENTS

- Professor Emeritus-Hourly(UML), Radiology
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Radiology Fellowships (2000) CA
- Residency: Stanford University Radiology Residency (1999) CA
- Internship: Kaiser Permanente Oakland Internal Medicine Residency (1995) CA
- PhD Training: Stanford University Electrical Engineering (1990) CA
- Medical Education: University of California at San Francisco School of Medicine (1994) CA
- Board Certification: Diagnostic Radiology, American Board of Radiology (1999)

Publications

PUBLICATIONS

- **Improved Right Ventricular Energy Efficiency by 4-Dimensional Flow Magnetic Resonance Imaging After Harmony Valve Implantation** *JACC:Advances*

Woo, J. P., Dong, M. L., Kong, F., McElhinney, D. B., Schiavone, N., Chan, F., Lui, G. K., Haddad, F., Bernstein, D., Marsden, A.
2023; 2 (3)

- **Evolution of hemodynamic forces in the pulmonary tree with progressively worsening pulmonary arterial hypertension in pediatric patients.** *Biomechanics and modeling in mechanobiology*

- Yang, W., Dong, M., Rabinovitch, M., Chan, F. P., Marsden, A. L., Feinstein, J. A.
2019
- **Repair of Untreated Older Patients with Tetralogy of Fallot with Major Aortopulmonary Collaterals.** *The Annals of thoracic surgery*
Vaikunth, S., Bauser-Heaton, H., Lui, G. K., Wise-Faberowski, L., Chan, F. P., Asija, R., Hanley, F. L., McElhinney, D. B.
2018
 - **Ultrafast pediatric chest computed tomography: comparison of free-breathing vs. breath-hold imaging with and without anesthesia in young children.** *Pediatric radiology*
Kino, A., Zucker, E. J., Honkanen, A., Kneebone, J., Wang, J., Chan, F., Newman, B.
2018
 - **Safety of ferumoxytol in children undergoing cardiac MRI under general anaesthesia.** *Cardiology in the young*
Wise-Faberowski, L., Velasquez, N., Chan, F., Vasanaawala, S., McElhinney, D. B., Ramamoorthy, C.
2018; 28 (7): 916–21
 - **Echocardiography-Derived Left Ventricular Outflow Tract Gradient and Left Ventricular Posterior Wall Thickening Are Associated with Outcomes for Anatomic Repair in Congenitally Corrected Transposition of the Great Arteries.** *Journal of the American Society of Echocardiography*
Moodley, S., Balasubramanian, S., Tacy, T. A., Chan, F., Hanley, F. L., Punn, R.
2017
 - **Congenital Variants and Anomalies of the Aortic Arch.** *Radiographics*
Hanneman, K., Newman, B., Chan, F.
2017; 37 (1): 32-51
 - **Computational simulation of postoperative pulmonary flow distribution in Alagille patients with peripheral pulmonary artery stenosis** *Computational simulation of postoperative pulmonary flow distribution in Alagille patients with peripheral pulmonary artery stenosis*
Yang, W., Feinstein, J., Marsden, A., Vignon-Clementel, I.
2017; 00: 1–10
 - **A PET/MR Imaging Approach for the Integrated Assessment of Chemotherapy-induced Brain, Heart, and Bone Injuries in Pediatric Cancer Survivors: A Pilot Study.** *Radiology*
Theruvath, A. J., Ilivitzki, A. n., Muehe, A. n., Theruvath, J. n., Gulaka, P. n., Kim, C. n., Luna-Fineman, S. n., Sakamoto, K. M., Yeom, K. W., Yang, P. n., Moseley, M. n., Chan, F. n., Daldrup-Link, et al
2017: 170073
 - **Myocardial Bridges on Coronary Computed Tomography Angiography#- Correlation With Intravascular Ultrasound and Fractional Flow Reserve.** *Circulation journal : official journal of the Japanese Circulation Society*
Forsdahl, S. H., Rogers, I. S., Schnittger, I. n., Tanaka, S. n., Kimura, T. n., Pargaonkar, V. S., Chan, F. P., Fleischmann, D. n., Tremmel, J. A., Becker, H. C.
2017
 - **Persistent fifth arch anomalies - broadening the spectrum to include a variation of double aortic arch vascular ring** *PEDIATRIC RADIOLOGY*
Newman, B., Hanneman, K., Chan, F.
2016; 46 (13): 1866-1872
 - **CT-defined phenotype of pulmonary artery stenoses in Alagille syndrome** *PEDIATRIC RADIOLOGY*
Rodriguez, R. M., Feinstein, J. A., Chan, F. P.
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 - **Postoperative Outcomes of Children With Tetralogy of Fallot, Pulmonary Atresia, and Major Aortopulmonary Collaterals Undergoing Reconstruction of Occluded Pulmonary Artery Branches** *ANNALS OF THORACIC SURGERY*
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 - **Surgical Repair of 115 Patients With Anomalous Aortic Origin of a Coronary Artery From a Single Institution.** *World journal for pediatric & congenital heart surgery*
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- **Pre- and Postoperative Imaging of the Aortic Root.** *Radiographics*
Hanneman, K., Chan, F. P., Mitchell, R. S., Miller, D. C., Fleischmann, D.
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- **Improved Quantification and Mapping of Anomalous Pulmonary Venous Flow With Four-Dimensional Phase-Contrast MRI and Interactive Streamline Rendering** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Hsiao, A., Yousaf, U., Alley, M. T., Lustig, M., Chan, F. P., Newman, B., Vasanawala, S. S.
2015; 42 (6): 1765-1776
- **Diagnosis of Anomalous Aortic Origin of the Left Coronary Artery in a Pediatric Patient.** *World journal for pediatric & congenital heart surgery*
Arunamata, A., Buccola Stauffer, K. J., Punn, R., Chan, F. P., Maeda, K., Balasubramanian, S.
2015; 6 (3): 470-473
- **Contrast-Enhanced C-arm Computed Tomography Imaging of Myocardial Infarction in the Interventional Suite** *INVESTIGATIVE RADIOLOGY*
Girard, E. E., Al-Ahmad, A., Rosenberg, J., Luong, R., Moore, T., Lauritsch, G., Chan, F., Lee, D. P., Fahrig, R.
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- **Computed Tomography and Magnetic Resonance Imaging in Neonates With Congenital Cardiovascular Disease** *SEMINARS IN ULTRASOUND CT AND MRI*
Chan, F. P., Hanneman, K.
2015; 36 (2): 146-160
- **Flow simulations and validation for the first cohort of patients undergoing the Y-graft Fontan procedure** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Yang, W., Chan, F. P., Reddy, V. M., Marsden, A. L., Feinstein, J. A.
2015; 149 (1): 247-255
- **Technical feasibility and intermediate outcomes of using a handcrafted, area-preserving, bifurcated Y-graft modification of the Fontan procedure** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Martin, M. H., Feinstein, J. A., Chan, F. P., Marsden, A. L., Yang, W., Reddy, V. M.
2015; 149 (1): 239-U381
- **Technical feasibility and intermediate outcomes of using a handcrafted, area-preserving, bifurcated Y-graft modification of the Fontan procedure.** *journal of thoracic and cardiovascular surgery*
Martin, M. H., Feinstein, J. A., Chan, F. P., Marsden, A. L., Yang, W., Reddy, V. M.
2015; 149 (1): 239-45 e1
- **Pediatric CT quality management and improvement program** *PEDIATRIC RADIOLOGY*
Larson, D. B., Molvin, L. Z., Wang, J., Chan, F. P., Newman, B., Fleischmann, D.
2014; 44: 519-524
- **Physiologic and molecular characterization of a murine model of right ventricular volume overload.** *American journal of physiology. Heart and circulatory physiology*
Reddy, S., Zhao, M., Hu, D., Fajardo, G., Katznelson, E., Punn, R., Spin, J. M., Chan, F. P., Bernstein, D.
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- **Magnetic resonance imaging of the right ventricle in pediatric pulmonary arterial hypertension.** *Pulmonary circulation*
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- **Magnetic resonance imaging of the right ventricle in pediatric pulmonary arterial hypertension** *PULMONARY CIRCULATION*
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- **Computational fluid dynamic simulations for determination of ventricular workload in aortic arch obstructions** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Coogan, J. S., Chan, F. P., LaDisa, J. F., Taylor, C. A., Hanley, F. L., Feinstein, J. A.
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- **Wall shear stress is decreased in the pulmonary arteries of patients with pulmonary arterial hypertension: An image-based, computational fluid dynamics study.** *Pulmonary circulation*
Tang, B. T., Pickard, S. S., Chan, F. P., Tsao, P. S., Taylor, C. A., Feinstein, J. A.
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- **Murine Model of Chronic Right Ventricular Diastolic Heart Failure Is Associated with Energetic Alterations and Extracellular Matrix Remodeling** *Basic Cardiovascular Sciences Scientific Session*
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- **CONTRAST-ENHANCED ROTATIONAL ANGIOGRAPHIC C-ARM CT IMAGING OF MYOCARDIAL INFARCTION IN THE INTERVENTIONAL SUITE: OPTIMIZED IMAGING PROTOCOL FOR ACUTE AND CHRONIC INFARCTS** *61st Annual Scientific Session and Expo of the American College-of-Cardiology (ACC)/Conference on ACC-i2 with TCT*
Girard, E., Moore, T., Lauritsch, G., Rosenberg, J., Al-Ahmad, A., Chan, F., Lee, D., Fahrig, R.
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- **Rapid Pediatric Cardiac Assessment of Flow and Ventricular Volume With Compressed Sensing Parallel Imaging Volumetric Cine Phase-Contrast MRI** *AMERICAN JOURNAL OF ROENTGENOLOGY*
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2012; 198 (3): W250-W259
- **Computed tomography angiography in children with cardiovascular disease: low dose techniques and image quality** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*
Greenberg, S. B., Bhutta, S., Braswell, L., Chan, F.
2012; 28 (1): 163-170
- **COMPARISON OF CLINICAL AND SIMULATION RESULTS FOR THE STANFORD Y-GRAFT FONTAN PILOT TRIAL** *ASME Summer Bioengineering Conference (SBC)*
Yang, W., Feinstein, J. A., Reddy, V. M., Chan, F. P., Marsden, A. L.
AMER SOC MECHANICAL ENGINEERS.2012: 463-464
- **Combined respiratory and cardiac triggering improves blood pool contrast-enhanced pediatric cardiovascular MRI** *PEDIATRIC RADIOLOGY*
Vasanawala, S. S., Chan, F. P., Newman, B., Alley, M. T.
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- **Computational Simulations for Aortic Coarctation: Representative Results From a Sampling of Patients** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*
LaDisa, J. F., Figueroa, C. A., Vignon-Clementel, I. E., Kim, H. J., Xiao, N., Ellwein, L. M., Chan, F. P., Feinstein, J. A., Taylor, C. A.
2011; 133 (9)
- **Computational Simulations Demonstrate Altered Wall Shear Stress in Aortic Coarctation Patients Treated by Resection with End-to-end Anastomosis** *CONGENITAL HEART DISEASE*
LaDisa, J. F., Dholakia, R. J., Figueroa, C. A., Vignon-Clementel, I. E., Chan, F. P., Samyn, M. M., Cava, J. R., Taylor, C. A., Feinstein, J. A.
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- **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.
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- **Computational Fluid Dynamic Simulations of Aortic Coarctation Comparing the Effects of Surgical- and Stent-Based Treatments on Aortic Compliance and Ventricular Workload** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*

- Coogan, J. S., Chan, F. P., Taylor, C. A., Feinstein, J. A.
2011; 77 (5): 680-691
- **MRI Evaluation of the Right Ventricle in Pediatric Pulmonary Arterial Hypertension** *31st Annual Meeting and Scientific Sessions of the International-Society-for-Heart-and-Lung-Transplantation (ISHLT)*
Blalock, S. E., Ogawa, M., Chan, F., MAXEY, D., Rosenthal, D. N., Feinstein, J. A.
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 - **Three-Dimensional Hemodynamics in the Human Pulmonary Arteries Under Resting and Exercise Conditions** *ANNALS OF BIOMEDICAL ENGINEERING*
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 - **Behcet's disease and heart transplantation: A word of caution** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Hollander, S. A., Yasnovsky, J. R., Reinhartz, O., Chan, F., Sandborg, C., Hunt, S., Bernstein, D., Chin, C.
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 - **Institutional experience with laparoscopic partial splenectomy for hereditary spherocytosis** *JOURNAL OF PEDIATRIC SURGERY*
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 - **Congenital extrahepatic portosystemic shunt associated with heterotaxy and polysplenia** *PEDIATRIC RADIOLOGY*
Newman, B., Feinstein, J. A., Cohen, R. A., Feingold, B., Kreutzer, J., Patel, H., Chan, F. P.
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 - **Breathheld Autocalibrated Phase-Contrast Imaging** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
Lew, C., Alley, M. T., Spielman, D. M., Bammer, R., Chan, F. P.
2010; 31 (4): 1004-1014
 - **A New Multiparameter Approach to Computational Simulation for Fontan Assessment and Redesign** *CONGENITAL HEART DISEASE*
Marsden, A. L., Reddy, V. M., Shadden, S. C., Chan, F. P., Taylor, C. A., Feinstein, J. A.
2010; 5 (2): 104-117
 - **Pediatric Computed Tomographic Angiography: Imaging the Cardiovascular System Gently** *RADIOLOGIC CLINICS OF NORTH AMERICA*
Hellinger, J. C., Pena, A., Poon, M., Chan, F. P., Epelman, M.
2010; 48 (2): 439-?
 - **Evaluation of a novel Y-shaped extracardiac Fontan baffle using computational fluid dynamics** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Marsden, A. L., Bernstein, A. J., Reddy, V. M., Shadden, S. C., Spilker, R. L., Chan, F. P., Taylor, C. A., Feinstein, J. A.
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 - **MR and CT imaging of the pediatric patient with structural heart disease.** *Seminars in thoracic and cardiovascular surgery. Pediatric cardiac surgery annual*
Chan, F. P.
2009: 99-105
 - **Morphological studies of pulmonary arteriovenous shunting in a lamb model of superior cavopulmonary anastomosis** *PEDIATRIC RADIOLOGY*
McMullan, D. M., Reddy, V. M., Gottliebson, W. M., Silverman, N. H., Perry, S. B., Chan, F., Hanley, F. L., Riemer, R. K.
2008; 29 (4): 706-712
 - **Time-resolved three-dimensional imaging of the left atrium and pulmonary veins in the interventional suite - A comparison between multisweep gated rotational three-dimensional reconstructed fluoroscopy and multislice computed tomography** *HEART RHYTHM*
Al-Ahmad, A., Wigstroem, L., Sandner-Porkristl, D., Wang, P. J., Zei, P. C., Boese, J., Lauritsch, G., Moore, T., Chan, F., Fahrig, R.
2008; 5 (4): 513-519
 - **MR and CT imaging of the pediatric patient with structural heart disease.** *Seminars in thoracic and cardiovascular surgery*
Chan, F. P.
2008; 20 (4): 393-399

- **SENSE phase-constrained magnitude reconstruction with iterative phase refinement** *MAGNETIC RESONANCE IN MEDICINE*
Lew, C., Pineda, A. R., Clayton, D., Spielman, D., Chan, F., Bammer, R.
2007; 58 (5): 910-921
- **Large differences in efficiency among Fontan patients demonstrated in patient specific models of blood flow simulations** *80th Annual Scientific Session of the American-Heart-Association (AHA)*
Marsden, A. L., Bernstein, A. J., Spilker, R. L., Chan, F. P., Taylor, C. A., Feinstein, J. A.
LIPPINCOTT WILLIAMS & WILKINS.2007: 480–80
- **Comparison of left atrial volume using gated cardiac fluoroscopy 3-D image rendering vs. cardiac computed tomography** *56th Annual Scientific Session of the American-College-of-Cardiology*
Al-Ahmad, A., Sander-Porkristl, D., Wigstrom, L., Wang, P. J., Zei, P. C., Hsia, H. H., Boese, J., Lauritsch, G., Moore, T., Chan, F., Fahrig, R.
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- **Use of computational fluid dynamics for the replication of clinical blood flow and pressure measurements and characterization of hemodynamics in the normal ascending and thoracic aorta** *ASME Summer Bioengineering Conference*
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- **Cardiac magnetic resonance imaging for myocarditis - Effective use in medical decision making** *CIRCULATION*
Fenster, B. E., Chan, F. P., Valentine, H. A., Yang, E., McConnell, M. V., Berry, G. J., Yang, P. C.
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- **Images in cardiovascular medicine. Near sudden death from cardiac lipoma in an adolescent.** *Circulation*
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Tsukiji, M., Nguyen, P., Narayan, G., Hellinger, J., Chan, F., Herfkens, R., Pauly, J. M., McConnell, M. V., Yang, P. C.
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- **Primary interpretation of thoracic MDCT images using coronal reformations** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Kwan, S. W., Partik, B. L., Zinck, S. E., Chan, F. P., Kee, S. T., Leung, A. N., Voracek, M., Rubin, G. D.
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- **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.
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- **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*
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- **MDCT angiography of pediatric vascular diseases of the abdomen, pelvis, and extremities** *PEDIATRIC RADIOLOGY*
Chan, F. P., Rubin, G. D.
2005; 35 (1): 40-53
- **Computed tomography angiography - State-of-the-art imaging using multidetector-row technology** *Conference on Advances in Multi-Detector CT*
Napoli, A., Fleischmann, D., Chan, F. P., Catalano, C., Hellinger, J. C., Passariello, R., Rubin, G. D.
LIPPINCOTT WILLIAMS & WILKINS.2004: S32–S45
- **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*
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2004; 28 (4): 459-468
- **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*
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- **Cardiac multidetector-row computed tomography: Principles and applications** *SEMINARS IN ROENTGENOLOGY*
Chan, F. P.
2003; 38 (4): 294-302
- **Composite spirometric-computed tomography outcome measure in early cystic fibrosis lung disease** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Robinson, T. E., Leung, A. N., Northway, W. H., Blankenberg, F. G., Chan, F. P., Bloch, D. A., Holmes, T. H., Moss, R. B.
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- **Active lower gastrointestinal hemorrhage diagnosed by magnetic resonance angiography: case report** *ABDOMINAL IMAGING*
Chan, F. P., Chhor, C. M.
2003; 28 (5): 637-639
- **An automated approach to quantitative air trapping measurements in mild cystic fibrosis** *CHEST*
Goris, M. L., Zhu, H. Y., Blankenberg, F., Chan, F., Robinson, T. E.
2003; 123 (5): 1655-1663
- **Time-resolved three-dimensional phase-contrast MRI** *10th Annual Meeting of the International-Society-for-Magnetic-Resonance-in-Medicine (ISMRM)*
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- **A comprehensive approach to MR imaging of mesenteric ischemia** *ABDOMINAL IMAGING*
Chow, L. C., Chan, F. P., Li, K. C.
2002; 27 (5): 507-516
- **In vivo validation of numerical prediction of blood flow in arterial bypass grafts** *ANNALS OF BIOMEDICAL ENGINEERING*
Ku, J. P., Draney, M. T., Arko, F. R., Lee, W. A., Chan, F. P., Pelc, N. J., Zarins, C. K., Taylor, C. A.
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- **Magnetic resonance imaging in the diagnosis and follow up of Takayasu's arteritis in children** *ANNALS OF THE RHEUMATIC DISEASES*
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Chan, F. P., JONES, T. R.
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Chan, F. P., JONES, T. R.
2001; 345 (11): 803-803
- **Validation of in vivo MR measurement of oxygen saturation after resuscitation with a hemoglobin-based oxygen carrier in a rabbit model** *ACADEMIC RADIOLOGY*
Chan, F. P., Jahr, J. S., Driessen, B., Daunt, D. A., Li, K. C.
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- **Coronary artery calcium scoring with a multiple row detector CT scanner: Comparison of single-sector (SSR) and multi-sector (MSR) reconstruction methods**
Coulam, C. H., Chan, F. P., Gao, S. Z., Schroeder, J. S., Pan, T. S., Iatrou, M., Betts, B. J., Rubin, G. D.
LIPPINCOTT WILLIAMS & WILKINS.2000: 603-4
- **New approaches to the investigation of focal hepatic lesions** *BEST PRACTICE & RESEARCH IN CLINICAL GASTROENTEROLOGY*
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1999; 13 (4): 529-543
- **A comprehensive approach using MR imaging to diagnose acute segmental mesenteric ischemia in a porcine model** *AMERICAN JOURNAL OF ROENTGENOLOGY*
Chan, F. P., Li, K. C., Heiss, S. G., Razavi, M. K.
1999; 173 (3): 523-529
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