

# Stanford

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## Randall Vagelos, MD

Professor of Medicine (Cardiovascular)

Medicine - Cardiovascular Medicine

### CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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## Bio

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### BIO

Board certified in Internal Medicine, General Cardiology, Interventional Cardiology, and Heart Failure and Transplantation. Medical Director of Stanford Cardiac Care Unit since 1991. Clinical interests: CHF, advanced structural heart disease (heart muscle, coronary artery, valve, and pericardial), as well as post radiation and chemotherapy induced heart damage.

### CLINICAL FOCUS

- Cardiology (Heart)
- Heart Lung Transplantation
- valvular heart disease
- Heart Failure
- Radiation/Chemotherapy induced cardiac disease
- Pericardial disease
- Advanced Heart Failure and Transplant Cardiology

### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

### PROFESSIONAL EDUCATION

- Residency: Columbia Presbyterian Medical Center (1986) NY
- Fellowship: Stanford University Cardiovascular Medicine Fellowship (1991) CA
- Cardiology Fellowship, Stanford University School of Medicine , Cardiology Fellowship (1989)
- Board Certification, American Board of Internal Medicine , Interventional Cardiology (2002)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (1989)

- Medical Education: Columbia University College of Physicians and Surgeons (1983) NY
- Board Certification: Internal Medicine, American Board of Internal Medicine (1986)

## LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

#### I. Congestive Heart Failure

New Medical Therapies

Prognostic Evaluation

Selection for Cardiac Transplantation

#### II. Screening for Myocardial Necrosis

New ECG Monitoring Devices

New Serum Markers

#### III. Screening for CAD

Patients Who Have Received Radiation Rx

Diabetics Being Considered for Renal Transplantation.

## Publications

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### PUBLICATIONS

- **Generation of two induced pluripotent stem cell lines from dilated cardiomyopathy patients caused by heterozygous mutations in the HCN4 gene.** *Stem cell research*  
Yildirim, Z., Kojic, A., Yan, C. D., Wu, M. A., Vagelos, R., Wu, J. C.  
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- **Generation of three iPSC lines from dilated cardiomyopathy patients carrying a pathogenic LMNA variant.** *Stem cell research*  
Lee, C., Cho, S., Lai, C., Shenoy, S., Vagelos, R., Wu, J. C.  
1800; 59: 102638
- **Quantitative Comparison of Microcirculatory Dysfunction in Patients With Stress Cardiomyopathy and ST-Segment Elevation Myocardial Infarction** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
Kim, H., Tremmel, J. A., Nam, C., Zhou, J., Haddad, F., Vagelos, R. H., Lee, D. P., Yeung, A. C., Fearon, W. F.  
2011; 58 (23): 2430-2431
- **Characteristics and Outcome After Hospitalization for Acute Right Heart Failure in Patients With Pulmonary Arterial Hypertension** *CIRCULATION-HEART FAILURE*  
Haddad, F., Peterson, T., Fuh, E., Kudelko, K. T., Perez, V. D., Skhiri, M., Vagelos, R., Schnittger, I., Denault, A. Y., Rosenthal, D. N., Doyle, R. L., Zamanian, R. T.  
2011; 4 (6): 692-699
- **Measurement Precision in the Optimization of Cardiac Resynchronization Therapy** *CIRCULATION-HEART FAILURE*  
Turcott, R. G., Witteles, R. M., Wang, P. J., Vagelos, R. H., Fowler, M. B., Ashley, E. A.  
2010; 3 (3): 395-404
- **Dyssynchrony Assessment with Tissue Doppler Imaging and Regional Volumetric Analysis by 3D Echocardiography Do Not Predict Long-Term Response to Cardiac Resynchronization Therapy.** *Cardiology research and practice*  
Kuppahally, S. S., Fowler, M. B., Vagelos, R., Wang, P., Al-Ahmad, A., Hsia, H., Liang, D.

2010; 2011: 568918-?

- **Worsening of Left Ventricular End-Systolic Volume and Mitral Regurgitation without Increase in Left Ventricular Dyssynchrony on Acute Interruption of Cardiac Resynchronization Therapy** *ECHOCARDIOGRAPHY-A JOURNAL OF CARDIOVASCULAR ULTRASOUND AND ALLIED TECHNIQUES*  
Kuppahally, S. S., Fowler, M. B., Vagelos, R., Wang, P., Al-Ahmad, A., Paloma, A., Liang, D.  
2009; 26 (7): 759-765
- **Angina Associated With Left Main Coronary Artery Compression in Pulmonary Hypertension** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*  
Perez, V. A., Haddad, F., Vagelos, R. H., Fearon, W., Feinstein, J., Zamanian, R. T.  
2009; 28 (5): 527-530
- **Effect of rapamycin therapy on coronary artery physiology early after cardiac transplantation** *AMERICAN HEART JOURNAL*  
Sinha, S. S., Pham, M. X., Vagelos, R. H., Perloth, M. G., Hunt, S. A., Lee, D. P., Valantine, H. A., Yeung, A. C., Fearon, W. F.  
2008; 155 (5)
- **Predictive value of the index of microcirculatory resistance in patients with ST-segment elevation myocardial infarction** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
Fearon, W. F., Shah, M., Ng, M., Brinton, T., Wilson, A., Tremmel, J. A., Schnittger, I., Lee, D. P., Vagelos, R. H., Fitzgerald, P. J., Yock, P. G., Yeung, A. C.  
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- **Cardiogenic Shock. In: D. Daniels, S. Rockson, R. Vagelos (eds.) Concise Cardiology: An Evidence-Based Handbook.** *Lippincott, Williams and Wilkins.*  
Daniels, D., Brinton, T., Vagelos, R.  
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- **Impact of nesiritide on renal function in patients with acute decompensated failure an pre-existing renal dysfunction - A randomized, double-blind, placebo-controlled clinical trial** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
Witteles, R. M., Kao, D., Christopherson, D., Matsuda, K., Vagelos, R. H., Schreiber, D., Fowler, M. B.  
2007; 50 (19): 1835-1840
- **Outcome in cardiac recipients of donor hearts with increased left ventricular wall thickness** *AMERICAN JOURNAL OF TRANSPLANTATION*  
Kuppahally, S. S., Valantine, H. A., Weisshaar, D., Parekh, H., Hung, Y. Y., Haddad, F., Fowler, M., Vagelos, R., Perloth, M. G., Robbins, R. C., Hunt, S. A.  
2007; 7 (10): 2388-2395
- **Changes in coronary anatomy and physiology after heart transplantation** *AMERICAN JOURNAL OF CARDIOLOGY*  
Hirohata, A., Nakamura, M., Waseda, K., Honda, Y., Lee, D. P., Vagelos, R. H., Hunt, S. A., Valantine, H. A., Yock, P. G., Fitzgerald, P. J., Yeung, A. C., Fearon, W. F.  
2007; 99 (11): 1603-1607
- **Recurrent spontaneous coronary artery dissection with transient left ventricular systolic dysfunction.** *International journal of cardiology*  
Ardehali, R., Brinton, T. J., Wilson, A. M., Gradman, M., Vagelos, R. H., Lee, D. P.  
2007; 116 (2): e48-50
- **The effect of gender on mortality or appropriate shock in patients with nonischemic cardiomyopathy who have implantable cardioverter-defibrillators** *PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY*  
Chen, H. A., Hsia, H. H., Vagelos, R., Fowler, M., Wang, P., Al-Ahmad, A.  
2007; 30 (3): 390-394
- **Screening for coronary artery disease after mediastinal irradiation for Hodgkin's disease** *JOURNAL OF CLINICAL ONCOLOGY*  
Heidenreich, P. A., Schnittger, I., Strauss, H. W., Vagelos, R. H., Lee, B. K., Mariscal, C. S., Tate, D. J., Horning, S. J., Hoppe, R. T., Hancock, S. L.  
2007; 25 (1): 43-49
- **Emerging therapies for the management of decompensated heart failure - From bench to bedside** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
DeGoma, E. M., Vagelos, R. H., Fowler, M. B., Ashley, E. A.  
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- **Successful removal of a paradoxical coronary embolus using an aspiration catheter** *NATURE CLINICAL PRACTICE CARDIOVASCULAR MEDICINE*  
Wilson, A. M., Ardehali, R., Brinton, T. J., Yeung, A. C., Vagelos, R.  
2006; 3 (11): 633-636
- **Left ventricular dyssynchrony does not deteriorate acutely on cessation of cardiac resynchronization therapy in long term responders** *10th Annual Scientific Meeting of the Heart-Failure-Society-of-America*  
Kuppahally, S., Fowler, M., Wang, P., Vagelos, R., Al-Ahmad, A., Paloma, A., Liang, D.  
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- **Discordant changes in epicardial and microvascular coronary physiology after cardiac transplantation: Physiologic investigation for transplant arteriopathy II (PITA II) study** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*  
Fearon, W. F., Hirohata, A., Nakamura, M., Luikart, H., Lee, D. P., Vagelos, R. H., Hunt, S. A., Valentine, H. A., Fitzgerald, P. J., Yock, P. G., Yeung, A. C.  
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- **Rapamycin therapy improves coronary physiology after cardiac transplantation** *55th Annual Scientific Session of the American-College-of-Cardiology*  
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- **Lymphocytic myocarditis after lung transplantation** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*  
Weinkauf, J., Walia, R., Berry, G. J., Vagelos, R., Faul, J. L.  
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- **Preoperative cardiac evaluation: mechanisms, assessment, and reduction of risk.** *Thoracic surgery clinics*  
Ashley, E. A., Vagelos, R. H.  
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- **"Tako-tsubo-like left ventricular dysfunction": a clinical entity mimicking acute myocardial infarction with a favorable prognosis.** *American journal of geriatric cardiology*  
Farouque, H. M., Kaltenbach, T., Ako, J., Tremmel, J. A., Fearon, W. F., Yeung, A. C., Vagelos, R. H.  
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- **Impact of angiotensin-converting enzyme gene polymorphism on neurohormonal responses to high- versus low-dose enalapril in advanced heart failure** *AMERICAN HEART JOURNAL*  
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- **Simultaneous assessment of fractional and coronary flow reserves in cardiac transplant recipients - Physiologic investigation for transplant arteriopathy (PITA study)** *CIRCULATION*  
Fearon, W. F., Nakamura, M., Lee, D. P., Rezaee, M., Vagelos, R. H., Hunt, S. A., Fitzgerald, P. J., Yock, P. G., Yeung, A. C.  
2003; 108 (13): 1605-1610
- **Physiologic interrogation of transplant arteriopathy: Final results** *52nd Annual Scientific Session of the American-College-of-Cardiology*  
Fearon, W. F., Nakamura, M., Lee, D. P., Rezaee, M., Vagelos, R. H., Hunt, S. A., Fitzgerald, P. J., Yock, P. G., Yeung, A. C.  
ELSEVIER SCIENCE INC.2003: 29A-29A
- **Physical activity patterns and exercise performance in cardiac transplant recipients.** *Journal of cardiopulmonary rehabilitation*  
Myers, J., Gullestad, L., Bellin, D., Ross, H., Vagelos, R., Fowler, M.  
2003; 23 (2): 100-106
- **Physiologic interrogation of transplant arteriopathy** *American-Heart-Association Abstracts From Scientific Sessions*  
Fearon, W. F., Nakamura, M., Lee, D. P., Rezaee, M., Vagelos, R. H., Hunt, S. A., Yock, P. G., Yeung, A. C.  
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- **Acute aortic syndrome: a case presentation and review of the literature** *VASCULAR MEDICINE*

- Lissin, L. W., Vagelos, R.  
2002; 7 (4): 281-287
- **Early use of statins in acute coronary syndromes.** *Current cardiology reports*  
Spin, J. M., Vagelos, R. H.  
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  - **Reversal of phen-fen associated valvular regurgitation documented by serial echocardiography** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*  
Vagelos, R., Jacobs, M., Popp, R. L., Liang, D.  
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  - **Clinical assessment in ischaemic cardiomyopathy** *NUCLEAR MEDICINE COMMUNICATIONS*  
Putz, E., Vagelos, R.  
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  - **Reverse remodeling following long-term carvedilol therapy is associated with improvement in survival: The Stanford Carvedilol Echocardiographic Registry**  
Tang, W. H., Larson, M. S., Vagelos, R. H., Prikazsky, L., Hu, B. S., Fowler, M. B.  
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  - **Neurohormonal and clinical responses to high- versus low-dose enalapril therapy in chronic heart failure** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
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  - **Effect of high- versus low-dose angiotensin converting enzyme inhibition on cytokine levels in chronic heart failure** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
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  - **Constrictive pericarditis due to coccidiomycosis** *ANNALS OF THORACIC SURGERY*  
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  - **Ventricular arrhythmia and dilated cardiomyopathy is linked to chromosome 2.**  
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  - **Relationship between tissue and circulating levels of angiotensin converting enzyme with high and low dose enalapril therapy in heart failure**  
Fowler, M. B., Yee, Y. G., Vagelos, R. H., Willson, K., Prikazsky, L., Mullin, A., Waldman-Boucher, M.  
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- **Clinical, hemodynamic, and cardiopulmonary exercise test determinants of survival in patients referred for evaluation of heart failure** *ANNALS OF INTERNAL MEDICINE*  
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Fowler, M. B., Vagelos, R. H., Schroeder, J. S., Benedict, C. R., Willson, K., Boucher, M., Mullin, A., Prikazsky, L. M., Liss, C. L., Labelle, P.  
LIPPINCOTT WILLIAMS & WILKINS.1997: 105-
- **Assessment of left ventricular wall motion abnormalities with the use of color kinesis: A valuable visual and training aid** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*  
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- **Volume-mediated pulmonary responses in liver transplant candidates** *CLINICAL TRANSPLANTATION*  
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- **MAGNETIC-RESONANCE IMAGING-DERIVED PARAMETER OF PORTAL FLOW PREDICTS VOLUME-MEDIATED PULMONARY-HYPERTENSION IN LIVER-TRANSPLANTATION CANDIDATES** *52nd Annual Meeting of the Central-Surgical-Association*  
Kuo, P. C., Alfrey, E. J., Li, K., Vagelos, R., Valantine, H., Garcia, G., Dafoe, D. C.  
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Hoffman, B. B., Prokocimer, P., Thomas, J. M., Vagelos, R., Chang, H., Reaven, G. M.  
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