

PAUL G. YOCK, M.D.

CURRICULUM VITAE

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Date of Birth: March 17, 1951

Place of Birth: Minneapolis, Minnesota

Marital Status: Married (Cynthia) with sons (Gregory - 6/97 & Andrew - 3/99)

Degrees and Training:

1969-1973	A.B. (Chemistry and Independent Study), Amherst College, Amherst, MA
1973-1975	M.A., Oxon. (Philosophy and Physiology), Trinity College, Oxford, U.K.
1975-1979	M.D., Harvard Medical School, Boston, MA
1979-1980	Intern in Medicine, University of California, San Francisco, CA
1980-1982	Resident in Medicine, University of California, San Francisco, CA
1982-1985	Fellow in Cardiology, Stanford University Medical Center, Stanford, CA
03/85-07/85	Fellow in Coronary Angioplasty, Sequoia Hospital, Redwood City, CA
05/07	Doctor of Science (Honorary), Amherst College

Positions:

07/85-06/86	Physician Specialist in Medicine, Stanford University School of Medicine
07/86-08/94	Assistant Professor of Medicine (Cardiology), University of California, San Francisco
08/92-06/94	Associate Professor of Medicine (Cardiology), University of California, San Francisco
07/94-10/98	Associate Professor of Medicine, Division of Cardiovascular Medicine, Stanford University School of Medicine Director, Center for Research in Cardiovascular Interventions, Stanford University School of Medicine
07/96-09/97	Acting Chief, Division of Cardiovascular Medicine, Stanford University School of Medicine
10/98-present	Professor of Medicine (Cardiovascular)
11/99-present	Professor of Mechanical Engineering (By Courtesy)
02/00-present	Martha Meier Weiland Professor of Medicine
2001-present	Director, Biodesign Program
2003-present	Professor of Bioengineering
2003-2007	Founding Co-Chair, Department of Bioengineering
2006-present	Professor of Operations Information and Technology (By Courtesy) Stanford School of Business

## Specialty Certification:

1982           Diplomate, American Board of Internal Medicine  
1985           Diplomate, Subspecialty in Cardiovascular Disease

## Honors:

1973           A.B. summa cum laude, Amherst College  
1973           President, Phi Beta Kappa, Amherst Chapter  
1973           Brown Scholarship (highest overall standing, Amherst College)  
1975-1979     National Scholar, Harvard Medical School  
1981           Excellence in Teaching Award, Medical Students, University of California San Francisco  
1990           Distinguished Service Award, Chinese Academy of Medical Sciences  
2000           Martha Meier Weiland Professor of Medicine, Stanford University  
2002           Career Achievement Award, 8<sup>th</sup> Annual National Interventional Cardiology Fellows Course  
2003           Fellow, American Institute for Medical and Biological Engineering  
2003           Stanford University; Department of Medicine 2003 Cardiology Divisional Teaching Award  
2004           Thomas J. Fogarty Lectureship: Focus on Innovation  
2005           Phoenix 2005 Innovator Award - The Phoenix Hall of Fame for Medical Device and Diagnostic Leadership honoree  
2006           Transcatheter Cardiovascular Therapeutics (TCT) Career Achievement Award  
2006-Pres     Consumers' Research Counsel of America- America's Top Cardiologists  
2007           Doctor of Science (Honoris Causa), Amherst College  
2008           American College of Cardiology Distinguished Scientist Award  
2009           Member Elect of the National Academy of Engineering

## Grants and Awards: (selected):

1974-1975     Thomas J. Watson Foundation Fellowship  
1974-1975     Keasbey Memorial Foundation Scholarship (Oxford)  
1983-1985     National Research Service Award (NHLBI): "Quantitative wall motion analysis of the angled LAO ventriculogram with echocardiographic correlation"  
1987-1990     Whitaker Foundation Grant: "Quantitative Analysis of Flow Disturbances" in Atherosclerotic Vascular Disease"  
1987-1988     Grant-in-Aid, California Affiliate, American Heart Association, "Turbulence Analysis of Coronary Blood Flow"  
1994-1997     National Institutes of Health, R01  
                Co-Responsible Investigator  
                "New Risk Factors for Coronary Artery Disease in Women"  
2002-2007     Biomedical Device Design & Prototype Development Program  
                The Lemelson Foundation  
                Principal Investigator  
2005-2006     BME-IDEA: Biomedical Engineering: Innovation, Design, and Entrepreneurship Alliance Annual Meeting  
                National Science Foundation  
                Principal Investigator

- 2008 Leader of Innovations and Pilots Unit  
(in Spectrum, the Stanford Center for Clinical and Translational Education and Research)
- 2005-2008 Development and bmesource Portal  
Kaufman Foundation  
Principal Investigator
- 2006-2011 Coulter Foundation Translational Research Partnership  
Co-Principal Investigator
- 2007-2012: Stanford India Biodesign Program  
Grant from the Department of Biotechnology and  
Ministry of Science and Technology, Government of India  
Training Director

Industry (selected):

- 1993-1994 "Intravascular Ultrasound Plaque Characterization: A Validation Study  
Using Directional Coronary Atherectomy"  
DVI/Simpson Atherectomy Research Grant  
Principal Investigator
- 1994-1997 "Assessment of Improved Interventional Devices for Coronary Disease"  
Guidant Corporation  
Principal Investigator
- 1995-1997 "Intravascular Ultrasound Quantitation of MultiLink Stent"  
Guidant Corporation  
Principal Investigator
- 1998-2000 PRESTO (Prevention of Restenosis with Tranilast and Its Outcomes)  
Co-Principal Investigator, Core laboratory
- 2001-2006 Evaluation of Noval Interventional Cardiology  
Fox Hollow Technology  
Principal Investigator
- 2003-2006 Local Vascular Drug Delivery Against Reperfusion Injury  
KAI Pharmaceuticals, Inc.  
Principal Investigator
- 2003-2005 Determining the efficacy of intramyocardial delivery for treatment of  
cardiomyopathy  
Venomatrix, Inc.  
Co-Principal Investigator
- 2004-2007 Invasive Assessment of the Coronary Microcirculation  
American Heart Association  
Co-Principal Investigator
- 2005-2006 Novel Therapies for the Treatment of Cardiomyopathy  
Edwards Life Sciences  
Principal Investigator

Principal or Co-Principal Investigator for multiple other cardiovascular device and intravascular ultrasound core laboratory studies.

Societies and Affiliations:

1983-	Member, American Heart Association
1983-94	Member, American Society of Echocardiography
1987-92	Member, American Association for the Advancement of Science
1987-	Fellow, American College of Cardiology
1992-94	Member, Council on Cardiopulmonary and Critical Care
1992-	Member, American Institute of Ultrasound in Medicine
2003-	Fellow, American Institute for Medical and Biological Engineering

Named or Distinguished Lectures (Selected):

1993	The Netherlands Heart Foundation Lecture
1996	The Sir Thomas Lewis Lecture, British Heart Foundation
1997	O.J. Tauber Lecturer, Texas Heart Institute
2000	Japanese Interventional Cardiology Society Distinguished Lectureship
2003	Stanford Entrepreneurial Thought Leaders Lectureship
2004	Society for Cardiac Angiography and Interventions: Frank Hildner Lecture
2004	Whitaker Foundation Biomedical Engineering Research Conference Keynote
2005	Whitaker Foundation Biomedical Engineering Educational Summit Keynote
2007	Amherst College Commencement Seminar: Can We Teach Innovation
2007	Stanford Entrepreneurial Thought Leader
2007	LifeScience Alley/University of Minnesota Keynote
2008	ASAIO Conference Keynote

Visiting Professorships (Selected):

1993	Cleveland Clinic Foundation, Department of Cardiology
1995	Beth Israel Hospital (Boston)
1996	Mount Sinai Medical Center (NY)
1997	Methodist Hospital, Houston
1998	University of Southern California (Los Angeles)
1999	Kobe University Hospital (Kobe Japan)
2001	Harvard University, Massachusetts Institute of Technology, CIMIT program
2003	University of Southern California, Mann Institute
2004	University of California, San Francisco
2005	University of Texas/Texas Heart Institute

Grand Rounds (Selected):

1995	Mount Sinai Medical Center (NY) Stanford University
1996	University of California, San Francisco
1997	Stanford University Texas Heart Institute
1999	University of California, San Francisco
2000	Stanford University
2005	University of California, San Francisco
2005	Texas Heart Institute

Courses/Programs Chaired (Selected):

1995	Fellows Course in Interventional Cardiology (Stanford)
1996	Intravascular Ultrasound for the Interventionalist (Stanford)
1997	"IVUS Simulcourse": Practical Intravascular Ultrasound for the Interventionalist
1997	Complex Coronary and Vascular Interventions: A Live Demonstration Course
	Minimally Invasive Coronary Surgery: An Expert's Forum
	Patent/Start-Up 101
1998	Medicine Meets Virtual Reality @ Stanford
1999	New Era Cardiac Care: Innovation & Technology (San Diego)
2000	Experts Forum in BioInterventional Cardiology (San Francisco)
2001	Medical Technology Leadership Forum Conflict of Interest at the University: Industry Interface
2002	Teaching of Innovation and Entrepreneurship in Biomedical Engineering (San Francisco)
2003	Biomedical Engineering Innovation, Design & Entrepreneurship Alliance (Nashville, TN)
2003	Abstract presentations, Scientific Session, American College of Cardiology
2003	American Heart Association, Santa Clara Chapter: Cardiovascular Roundtable
2003	Abstract presentations, Scientific Sessions, American Heart Association
2004	Stanford Graduate School of Business, Health Care and Biotechnology Seminar
2004	"From the Innovator's Workbench" Series
2004	Biomedical Engineering Innovation, Design & Entrepreneurship Alliance (Philadelphia, PA)
2005	June - Biodesign Research Retreat (Stanford, CA)
2005	September - Emerging Entrepreneurs in Biomedical Technology (Stanford, CA)
2006	September – Biomedical Engineering Innovation, Design & Entrepreneurship Alliance (Baltimore, MD)
2007	"From The Innovator's Workbench" Series
2007	September – Biomedical Engineering Innovator Design & Entrepreneurship Alliance, (Los Angeles, CA)

Engineering and Medical Graduate Students Supervised (Biodesign Program):

2001	Raji Doshi, Keith Chow, Maneesh Amancharla, Sam Kim
2002	Chris Eversull, Nick Mourlas, Asha Nayak
2003	Aimee Angel, Dan Francis, Bill Overall
2004	Evan Anderson, Colleen Cahill, Jeremy Johnson, Erik Price, Amrish Walke, Russell Woo
2005	Corinne Bright, Ken Martin, Henry Chen, Shabayu Basu
2006	Kit Au-Yeung, Uday Kumar, John White, Joe Knight, Gary Binyamin, Jessica Connor
2007	Carlos Mery, Bilal Shafi, Ross Venook, Joel Goldsmith, Richard Vecchiotti, Steve Eichmann Kenneth Wu, Zach Malchano, Tatum Tarin, Basil Hantash, David Meister, Oscar Dominguez-Miranda, Santiago Torres-Ocejo
2008	Ron Jou, Dorothea Koh, Marie Johnson, Beverly Tang, Nanden Lad, Jamie vanHofen, David Boudreault, Zachary Edmonds, Brian Fahey
2009	John Avi Roop, Kevin Chao, Joelle Faulkner, Matthew Callaghan, Jake Brenner, Ruey Peh, Greg Magee, Erika Palmer

## University Courses- Director:

1998-present	ME 289 Medical Device Forum Course Co-Director
1999-2000	ME 194/384 Medical Device Design Course Co-Organizer
1999-2002	Med272 A, B – Biomedical Technology Innovation
2003-present	BioE 374 A, B – Biodesign Innovation
2003-present	Med 276 Careers in Biomedical Technology

## Lectures (Selected):

May 1998	Board of the Founding Grant Society, Stanford University “New Technology for Heart Disease: The Stanford Connection”
Nov 1998	Beyond Angiography V, Keynote Speaker, (Dallas, TX)
Feb 1999	Advanced Coronary Interventions, Eindhoven, Netherlands
Sept 1999	Transcatheter Therapeutics (TCT), Plenary Lecture, Washington DC
Jan 2000	The Society of Thoracic Surgeons Annual Meeting, Plenary Lecture, Ft. Lauderdale, FL “The Management of Coronary Artery Disease”
Apr 2000	California Healthcare Institute Policy Perspective Luncheon, Santa Clara, CA
Sept 2000	Transcatheter Therapeutics (TCT), Featured Lecture, Washington DC
Nov 2000	Plenary Session, American Heart Association, Assessment of Coronary Heart Dis
Feb 2005	Undergraduate Core: Human Physiology
Feb 2007	Stanford Entrepreneurial Thought Leaders
Oct 2008	Transcatheter Therapeutics (TCT), Lecture, Washington DC
Aug 2009	University of Minnesota
Oct. 2009	Advanced InHealth, Washington DC
Oct 2009	Transcatheter Therapeutics (TCT), San Francisco, CA

## Media Reports (Selected):

1. "Ultrasound Guides a Drill to Unclog Heart Arteries"  
New York Times (May, 1992)
2. "Inventing the Dream"  
KPIX (Channel 5) special program on Bay Area Inventors (Oct, 1992)
3. "Intravascular Ultrasound"  
Omni Magazine (Feb, 1994)
4. Interview and Case Demonstration of Intravascular Ultrasound  
CNN, "Health Week" (March, 1994)
5. KRON TV: "Health Matters"  
Interview (September, 1995)
6. New ultrasound catheters for clot disruption  
New York Times (March, 1997)
7. “High Tech Transfer”  
In Vivo Magazine, 2000

## Selected University Appointments and Committees:

UCSF:

Associate Director, Cardiac Catheterization Laboratory  
Associate Staff Member, Cardiovascular Research Institute  
Faculty, U.C.S.F./U.C. Berkeley Graduate Group in Bioengineering  
Acting Director, Cardiology Animal Laboratories (1987-88)  
Chairman, Department of Medicine Quality Assurance Committee (1988-1991)  
Member, Department of Medicine Internship Selection Committee (1988-1993)

Stanford:

Director, Center for Research in Cardiovascular Interventions (1994- present)  
Director, Cardiology Animal Laboratories (1994-present)  
Dean's Task Force on Academic/Industry Alliance (1996)  
Member at Large, Medical School Faculty Senate (1997-1999)  
Member, Advisory Board, Stanford Technology Ventures Programs (1998-present)  
Director, Medical Device Network (1997-2001)  
Member, Biomedical Engineering Initiative Planning Committee (1999-2002)  
Member, Advisory Committee, Veterinary Service Center (1999 –2001)  
Member, BioX Space/Facility Committee (1999-2000)  
Member, School of Medicine, Appointments and Promotions Committee (1999-2002)  
Member, Enterprise Scholars Committee (2000)  
Member, Planning Committee, School of Medicine Campaign (2000-2001)  
Member, Dean's Search Committee (2000-2001)  
Member, Advisory Committee, Association for Accreditation of Human Research Protection Programs (AAHRPP (2005-2006)  
Member, School of Medicine Executive Committee (2003-2007)  
Alternate Member, School of Engineering Executive Committee (2003-2007)  
Member, Leadership Council, BioX (2000-present)  
Member, Co-Chair Bioengineering Faculty Search Committee (2003-present)  
Faculty Advisor, Stanford Student Biodesign (2002-present)  
Leadership Group, Stanford CTSA application and program (2007-present)

University of Minnesota:

Member, External Scientific Advisory Board, Institute for Engineering in Medicine

National, State, Governmental Committees:

American Heart Association, San Francisco Chapter, Planning Committee (1988-1992)  
American Heart Association, San Francisco Chapter, Professional Education Committee (1989)  
American Heart Association, California Chapter, Steering Committee (1989)  
American Heart Association, Liaison to Council on Cardiovascular Disease in the Young (2009)  
American College of Cardiology, California, Chapter Alternate Delegate (1991-92)  
Association of Professors of Cardiology (1996-)  
American College of Cardiology: Educational Products Committee (1997-)  
American College of Cardiology: Cardiovascular Imaging Committee (1998)  
American Heart Association, Cardiac Imaging Committee (1998-2004)  
Medical Technology Leadership Forum (1997-2003; Board of Directors (1998-2003))  
California Health Care Institute, Sacramento Panel (2003)  
Founder, Biomedical Engineering Innovation, Design&Entrepreneurship Alliance (2003 – present)  
Finance Committee, American Institute for Medical and Biological Engineering (2005-present)  
Long-range Planning Committee, Biomedical Engineering Society (BMES) (2007-present)

National Collegiate Inventors & Innovators Alliance, Board of Directors (2009-2011)

Editorial Boards:

Editorial Board, Circulation (1992-2006)  
Editorial Consultant, Journal of the American College of Cardiology (1993-1997)  
Editorial Board, American Journal of Cardiology (1993-1995; 1996-present)  
Editorial Board, The Journal of Invasive Cardiology (1995-2005)  
Editorial Advisory Board, Interventions (1997-present)  
Editorial Advisory Board, Intravascular Imaging (1997-present)

Other Peer Review Activities:

American Heart Association, California Chapter, Grant Review Committee 1989-92)  
Frequent abstract reviewer for American College of Cardiology, American Heart Association  
Frequent reviewer for other cardiology journals, including  
American Heart Journal  
Catheterization and Cardiovascular Diagnosis  
Coronary Artery Disease  
European Heart Journal  
Journal of the American Society of Echocardiography  
Journal of Interventional Cardiology  
Journal of Ultrasound in Medicine and Biology  
Annals of Biomedical Engineering

Specialized Clinical Techniques:

Coronary angioplasty and atherectomy  
Valvuloplasty  
Intravascular ultrasound  
Coronary arteriography  
Endomyocardial biopsy  
Two-dimensional echocardiography  
Doppler echocardiography  
Color flow echocardiography

Patents (United States):

1. Horzewski M, **Yock P.** Reinforcing balloon dilatation catheter with slitted exchange sleeve and method. Issued June 7, 1988; US patent no. 4,748,982.
2. **Yock P.** Catheter system apparatus and method for vascular ultrasonography. Issued January 3, 1989; US patent no. 4,794,931.
3. **Yock P.,** Selfridge, Alan R. Apparatus for use in cannulation of blood vessels. Issued December 19, 1989; US patent no. 4,887,606.
3. **Yock P.** Ultrasound imaging probe with zero dead space. Issued February 13, 1990; US patent no. 4,899,757.



4. **Yock P.** Method for intravascular two-dimensional ultrasonography and recanalization. Issued March 19, 1991; US patent no. 5,000,185.
5. **Yock P.**, Arenson J. Laser catheter with imaging capability. Issued June 9, 1991; US patent no. 5,029,588.
6. **Yock P.** Angioplasty method. Issued August 20, 1991; US patent no. 5,040,548.
7. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued October 29, 1991; US patent no. 5,061,273.
8. **Yock P.** Angioplasty apparatus facilitating rapid exchanges and method. Issued April 5, 1994; US patent no. 5,300,085.
9. **Yock P.** Syringe with ultrasound emitting transducer for flow-directed cannulation of arteries and veins. Issued May 17, 1994; US patent no. 5,311,871.
10. **Yock P.** Method and apparatus for intravascular two-dimensional ultrasonography. Issued May 24, 1994; US patent no. 5,313,949.
11. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued September 27, 1994; US patent no. 5,350,395.
12. **Yock P.** Method of coronary plaque removal with bypass and perfusion. Issued September 19, 1995; US patent no. 5,451, 207
13. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued September 19, 1995; US patent no. 5,451,233.
14. Horzewski, **Yock, P.** Reinforced balloon dilatation catheter with slitted exchange sleeve and method. Issued March 5, 1996; US patent no. 5,496,346
15. **Yock P.** Angioplasty apparatus facilitation rapid exchange and method. Issued March, 26, 1996; US patent no. 5,501,227
16. **Yock P.** Method and apparatus for intravascular ultrasonography. Issued December 10, 1996; US patent no. 5,582,178
17. **Yock P.**, et al. Rotational correlation of intravascular ultrasound image with guide catheter position. Issued January 28, 1997; US patent no. 5,596,990.
18. Horzewski MJ, **Yock P.** Reinforced balloon dilatation catheter with slitted exchange sleeve and method. Issued May 6, 1997; US patent no. 5,626,600
19. **Yock P.** Method and apparatus for intravascular. Issued July 29, 1997; US patent no. 5,651,364.

20. **Yock P.** Method and apparatus for intravascular ultrasonography. Issued October 14, 1997; US patent no. 5,676,151
21. **Yock PG.** Angioplasty apparatus facilitating rapid exchange. Issued November 11, 1997; US patent no. 5,685,312
22. **Yock, P** et al. Rotational correlation of intravascular ultrasound image with guide catheter position. Issued March 10, 1998; US patent no. 5,724,977
23. **Yock, Paul G.** Method of using angioplasty apparatus facilitating rapid exchanges. Issued May 12, 1998; US patent no. 5,749,888
24. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued June 23, 1998; US patent no. 5,769,868.
25. **Yock P.** Method and apparatus for intravascular ultrasonography. Issued February 2, 1999; US patent no. 5,865,178
26. **Yock P.** Method and apparatus for intravascular ultrasonography. Issued May 11, 1999; US patent no. 5,902,245.
27. **Yock P.** Rotational correlation of intravascular ultrasound image with guide catheter position. Issued March 9, 1999; US patent no. 5,879,305.
28. **Yock P.** Treating a totally or near totally occluded lumen. Issued February 2, 2000; US patent no. 6,027,450.
29. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued March 14, 2000; US patent no. 6,036,715.
30. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued December 26, 2000; US patent no. 6,165,197.
31. **Yock P.** Method and apparatus for intra-vascular two-dimensional ultrasonography. Issued April 24, 2001; US patent no. 6,221,015.
32. **Yock P.** Methods and kits for locally administering an active agent to an interstitial space of a host. Issued February 12, 2002; US patent no. 6,346,098.
33. **Yock P.** Method and apparatus for intra-vascular two-dimensional ultrasonography. Issued June 25, 2002; US patent no. 6,409,673.
34. **Yock P.** Method and apparatus for intra-vascular two-dimensional ultrasonography. Issued June 3, 2003; US patent no. 6,572,554.

35. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued June 10, 2003; US patent no. 6,575,993.
36. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued July 1, 2003; US patent no. 6,585,657.
37. **Yock P.** Angioplasty apparatus facilitating rapid exchnages and methods. Issued March 9, 2004; US patent no. 6,702,750.
38. **Yock P.** Methods and apparatus for intravascular two-dimensional ultrasonography. Issued July 20, 2004; US patent no. 6,764,450.
39. **Yock, P.** Angioplasty apparatus facilitating rapid exchanges and method. Issued July 26, 2005; US patent no. 6,921,411.
40. **Yock, P.** Method and apparatus for intravascular two-dimensional ultrasonography. Issued November 7, 2006; US patent no. 7,131,948.

(International patents not listed. Additional patent applications are under review in the United States and abroad.)

#### Refereed Journal Articles:

1. Alter BP, Metzger JB, **Yock PG,** Rothchild SB, Dover GJ. Selective hemolysis of adult red blood cells: An aid to prenatal diagnosis of hemoglobinopathies. *Blood*, 53:279-287, 1979.
2. Lamberti C, Sanders B, **Yock P,** Alderman E. A system to compare methods for left ventricular wall motion analysis. *Computers in Cardiology*, pp 89-93, 1984.
3. **Yock PG,** Popp RL. Noninvasive estimation of right ventricular systolic pressure by Doppler ultrasound in patients with tricuspid regurgitation. *Circulation*, 70:657-662, 1984.
4. Teirstein P, **Yock PG,** Popp RL. The accuracy of Doppler ultrasound measurements of pressure gradients across irregular, dual and tunnel-like obstructions to blood flow. *Circulation*, 72:577-584, 1985.
5. **Yock PG,** Popp RL. Non-invasive evaluation of intracardiac pressures using Doppler ultrasound: A case study of pan-valvular regurgitation. *Clin Cardiol*, 8:525-571, 1985.
6. Schnittger I, Keren A, **Yock PG,** Allen MD, Modry DL, Zusman DR, Mitchell RS, Miller DC, Popp RL. Timing of abnormal interventricular septal motion post-cardiopulmonary bypass surgery: Lack of injury proven by pre-, intra- and post-operative echocardiography. *J Thor Cardiovasc Surg*, 91:619-623, 1986.

7. Yeager M, **Yock PG**, Popp RL. Comparison of Doppler-derived pressure gradient to that obtained at cardiac catheterization in adults with aortic valve stenosis and implications for management. *Am J Cardiol*, 57:644-648, 1986.
8. Freedman R, **Yock PG**, Echt DS, Popp RL. Effect of variation in PQ interval on patterns of mitral valve motion and flow in patients with normal ventricular function *J Am Coll Cardiol*, 7: 595-602, 1986.
9. Teirstein P, Yeager M, **Yock PG**, Popp RL. Doppler echocardiographic measurement of aortic valve area a non-invasive application of the Gorlin formula. *J Am Coll Cardiol*, 8:1059-65, 1986.
10. **Yock PG**, Hatle L, Popp RL, Patterns and timing of Doppler-detected intracavitary and aortic flow in hypertrophic cardiomyopathy. *J Am Coll Cardiol*, 8:1047-58, 1986.
11. **Yock PG**, Johnson EL, Linker DT. Intravascular ultrasound: Development and clinical potential. *Am J Card Im*, 2(3):185-193, 1988.
12. Sasson Z, **Yock PG**, Hatle LK, Alderman EL, Popp RL. Doppler echocardiographic determination of the pressure gradient in hypertrophic cardiomyopathy. *J Am Coll Cardiol*, 11:752-6, 1988.
13. Ports TA, Srebro JP, Manubens SM, White N, Johnson E, **Yock PG**, Lo E., Simultaneous percutaneous aortic valvuloplasty and coronary artery angioplasty in an elderly patient. *Am Heart J*, 115:672-75, 1988.
14. Johnson EL, **Yock PG**, Hargrave VK, Srebro JP, Manubens SM, Seitz W, Ports TA. Assessment of the severity of a coronary stenosis using a Doppler catheter: validation of a method based on the continuity equation. *Circulation*, 80(3):625-635, 1989.
15. **Yock P**, Linker D, Angelsen B. Two-dimensional, intravascular ultrasound: Technical development and initial clinical experience. *J Am Soc Echocard*, 2(4):296-304, 1989.
16. **Yock P**, Linker D, White N et al. Clinical applications of intravascular ultrasound imaging in atherectomy. *Int J Card Imag*, 4:117-125, 1989.
17. Linker D, **Yock P**, Groenningsaether A, et al. Analysis of backscattered ultrasound from normal and diseased arterial wall. *Int J Card Imag*, 4:177-185, 1989.
18. **Yock P**, Linker D, Arenson J, Thapliyal H, Saether O, White N, Angelsen B. Intravascular two-dimensional catheter ultrasound: Clinical studies in the periphery. *SPIE Proceedings*, 1068:151-154, 1989.
19. Bouchard A, **Yock P**, Schiller NB, Blumlein S, Botvinick EH, Greenberg B, Cheitlin M, Massie BM. Value of color Doppler estimation of regurgitant volume in patients with chronic aortic insufficiency. *Am Heart J*, 117(5):1099-105, 1989.
20. Davies NJ, Butany J, **Yock PG**, Rakowski H. Aortic dissection and rupture that produced right ventricular perforation: detection by echocardiography and color flow mapping. *J Am Soc Echocard*, 3(2):140-144, 1990.

21. Nishimura RA, Edwards WD, Warnes CA, Reeder GS, Holmes DR, Tajik AJ, **Yock PG**. Intravascular ultrasound imaging: in vitro validation and pathologic correlation. *J Am Coll Cardiol*, 16(1):145-154, 1991.
22. Linker DT, Kleven ATLE, Groenninsaether A, **Yock PG**, Angelsen BAJ. Tissue characterization with intra-arterial ultrasound: Special promise and problems. *Int J Cardiac Imag*, 6:255-263, 1991.
23. **Yock PG**, Fitzgerald PJ, Sudhir KS, et al. Intravascular ultrasound guidance of atherectomy and other plaque removal techniques. *Int J Cardiac Imag*, 6:179-189, 1991.
24. Sudhir K, Fitzgerald PJ, MacGregor JA, Demarco T, Ports TA, Chatterjee K, **Yock PG**. Transvenous coronary ultrasound imaging: A novel approach to visualization of the coronary arteries. *Circulation*, 84:1957-61, 1991.
25. Sudhir K, Fitzgerald PJ, MacGregor JA, Demarco T, Ports TA, Chatterjee K, **Yock PG**. Transvenous coronary ultrasound imaging: A novel approach to visualization of the coronary arteries. *Circulation*, 84:1957-61, 1991.
26. Denardo SJ, **Yock PG**, Hargrave VK, Srebro JP, Ports TA, Talbot L. Differentiation of abnormal blood flow patterns in coronary arteries based on Doppler catheter recordings. *Angiology*, 42:711-725, 1991.
27. Starksen NF, **Yock PG**. Clinical applications of intravascular ultrasound imaging. *Am J Cardiac Imag*, 5(1):54-59, 1991.
28. Fitzgerald PJ, Ports TA, **Yock PG**. Contribution of localized calcium deposits to dissection after angioplasty: An observational study using intravascular ultrasound. *Circulation*, 86:64-70, 1992.
29. Fitzgerald PJ, St. Goar FG, Connolly AJ, Pinto FJ, Billingham ME, Popp RL, **Yock PG**. Intravascular ultrasound imaging of coronary arteries: Is three layers the norm? *Circulation*, 86:154-158, 1992.
30. Yamada EG, Fitzgerald PJ, Sudhir K, Hargrave VK, **Yock PG**. Intravascular ultrasound imaging of blood: The effect of hematocrit and flow of backscatter. *J Am Soc Echo*, 5:385-392, 1992.
31. Sudhir K, Hargrave V, Johnson E, Aldea G, Mori G, Ports TA, **Yock PG**. Measurement of volumetric coronary blood flow using a Doppler catheter: Validation in an animal model. *Am Heart J*, 124:87-85, 1992.
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