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Education

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

Academic Experience

2006-present	Professor of Operations Information and Technology (By Courtesy) Stanford School of Business
2003-2007	Founding Co-Chair, Department of Bioengineering
2003-present	Professor of Bioengineering
2001-present	Director, Biodesign Program
1999-present	Professor of Mechanical Engineering (By Courtesy)
1998-present	Professor of Medicine (Cardiovascular)
1996-1997	Acting Chief, Division of Cardiovascular Medicine, Stanford University School of Medicine
1994-1998	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
1992-1994	Associate Professor of Medicine (Cardiology), University of California, San Francisco
1986-1994	Assistant Professor of Medicine (Cardiology), University of California, San Francisco
1985-1986	Physician Specialist in Medicine, Stanford University School of Medicine

Specialty Certification

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

Honors (selected)

2010 Career Achievement, Cardiovascular Research Institute (Columbia Univ)
2009 Member, National Academy of Engineering
2008 American College of Cardiology Distinguished Scientist Award
2007 Doctor of Science (Honoris Causa), Amherst College
2006-Pres Consumers' Research Counsel of America- America's Top Cardiologists
2006 Transcatheter Cardiovascular Therapeutics (TCT) Career Achievement Award
2005 Phoenix 2005 Innovator Award - The Phoenix Hall of Fame for Medical Device and Diagnostic Leadership honoree
2003 Stanford University; Department of Medicine 2003 Cardiology Divisional Teaching Award
2003 Fellow, American Institute for Medical and Biological Engineering
2002 Career Achievement Award, 8th Annual National Interventional Cardiology Fellows Course
2000-present Martha Meier Weiland Professor of Medicine, Stanford University
1990 Distinguished Service Award, Chinese Academy of Medical Sciences
1981 Excellence in Teaching Award, Medical Students, University of California San Francisco
1975-1979 National Scholar, Harvard Medical School
1973 Brown Scholarship (highest overall standing, Amherst College)
1973 President, Phi Beta Kappa, Amherst Chapter
1973 A.B. summa cum laude, Amherst College

Grants, Awards & Fellowships (selected)

2012	Stanford-India Biodesign Phase II National Collegiate Inventors and Innovators Alliance Principal Investigator
2012-2013	Understanding the Current Status of Medical Technology in Rural China Freeman Spogli Institute of Global Underdevelopment Action Fund Principal Investigator
2011-2013	Consortium for Innovation, Design Evaluation and Action (C-IDEA) National Institutes of Health (NIH) Co-Principal Investigator
2011-2012	Examining Barriers to the Commercialization of Medical Technology Freeman Spogli Institute Global Underdevelopment Action Fund
2010-2013	Singapore-Stanford Biodesign Program Government of Singapore Agency for Science, Technology and Research Director
2008-2013	SCCTER: The Stanford Center for Clinical and Translational Education & Research Co-Principal Investigator Innovations and Pilots Unit NIH, Clinical & Translational Science Awards (CTSA)
2007-2012	Stanford India Biodesign Program Grant from the Department of Biotechnology and Ministry of Science and Technology, Government of India Training Director
2006-2011	Coulter Foundation Translational Research Partnership Co-Principal Investigator
2005-2008	Development of Bmesource Portal Kaufman Foundation Principal Investigator
2005-2006	BME-IDEA: Biomedical Engineering: Innovation, Design, and Entrepreneurship Alliance Annual Meeting National Science Foundation Principal Investigator
2002-2007	Biomedical Device Design & Prototype Development Program The Lemelson Foundation Principal Investigator
1994-1997	National Institutes of Health, R01 Co-Responsible Investigator "New Risk Factors for Coronary Artery Disease in Women"
1974-1975	Keasbey Memorial Foundation Scholarship (Oxford)
1974-1975	Thomas J. Watson Foundation Fellowship

Industry Grants (selected)

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

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

Societies and Affiliations

2009-	Member, National Academy of Engineering
2003-	Fellow, American Institute for Medical and Biological Engineering
1992-98	Member, American Institute of Ultrasound in Medicine
1992-94	Member, Council on Cardiopulmonary and Critical Care
1987-	Fellow, American College of Cardiology
1983-94	Member, American Society of Echocardiography
1983-	Member, American Heart Association

Foundation and NGO:

2009-present	Board of Directors, National Collegiate Inventors and Innovators Alliance (NCIIA)
2009-present	Leadership Council, Edwards Lifesciences Center, UC-Irvine

Named, Distinguished, & Keynote Lectures (Selected)

2012	Plenary Talk, American Heart Association Annual Meeting “Biodesign of Novel Devices for Global CVD Treatment”
2012	National Academy of Engineering – DeLange Conference (Rice University)
2010	Technology Innovation in Plastic Surgery (TIPS) Keynote
2010	Indian Medtech Summit Keynote, Delhi
2010	Leading Matters, Stanford University, Singapore, Taiwan
2009	University of Minnesota – Center for Medical Devices
2008	ASAIO Conference Keynote
2007	LifeScience Alley/University of Minnesota Keynote
2007	Amherst College Commencement: Can We Teach Innovation?
2005	Whitaker Foundation Biomedical Engineering Educational Summit Keynote
2004	Whitaker Foundation Biomedical Engineering Research Conference Keynote
2004	Society for Cardiac Angiography and Interventions: Frank Hildner Lecture
2003	Stanford Entrepreneurial Thought Leaders Lectureship
2000	Japanese Interventional Cardiology Society Distinguished Lectureship
2000	Plenary Session, American Heart Association
2000	Transcatheter Therapeutics (TCT), Featured Lecture, Washington DC
2000	The Society of Thoracic Surgeons Annual Meeting, Plenary Lecture, Ft. Lauderdale, FL “The Management of Coronary Artery Disease”
1999	Transcatheter Therapeutics (TCT), Plenary Lecture, Washington DC
1998	Beyond Angiography V, Keynote Speaker, (Dallas, TX)
1998	Board of the Founding Grant Society, Stanford University
1997	O.J. Tauber Lecturer, Texas Heart Institute
1996	The Sir Thomas Lewis Lecture, British Heart Foundation
1993	The Netherlands Heart Foundation Lecture

Visiting Professorships (Selected)

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

Grand Rounds (Selected)

2011	Stanford University (Nuclear Medicine, Department of Surgery)
2010	Stanford University (Cardiovascular Medicine)
2005	Texas Heart Institute
2005	University of California, San Francisco
2000	Stanford University, Department of Medicine
1999	University of California, San Francisco
1997	Stanford University, Department of Medicine Texas Heart Institute
1996	University of California, San Francisco
1995	Mount Sinai Medical Center (NY) Stanford University, Department of Medicine

Other Meetings (Selected)

2011 American Institute for Medical and Biological Engineering (Stanford, CA)
A Call to Action: Defining the Industry-Academic Relationships for Effective
Technology Transfer in Medical & Biological Engineering

Courses/Programs Chaired (Selected)

2013 Biodesign Executive Education
2010-present Biodesign Roundtable (Stanford, CA)
2007 Biomedical Engineering Innovation
Design & Entrepreneurship Alliance, (Los Angeles, CA)
2006 Biomedical Engineering Innovation, Design & Entrepreneurship Alliance
(Baltimore, MD)
2005 Emerging Entrepreneurs in Biomedical Technology (Stanford, CA)
2005 Biodesign Research Retreat (Stanford, CA)
2004 Biomedical Engineering Innovation, Design & Entrepreneurship Alliance
(Philadelphia, PA)
2004-present Biodesign "From the Innovator's Workbench" (Stanford, CA)
2004 Stanford Graduate School of Business, Health Care and Biotechnology Seminar
2003 Scientific Sessions, American Heart Association (Session Chair)
2003 American Heart Association, Santa Clara Chapter: Cardiovascular Roundtable
2003 Scientific Session, American College of Cardiology (Session Chair)
2003 Biomedical Engineering Innovation, Design & Entrepreneurship Alliance (Nashville, TN)
2002 Teaching of Innovation and Entrepreneurship in Biomedical Engineering
(San Francisco)
2001 Medical Technology Leadership Forum: Conflict of Interest at the University:
Industry Interface
1999 Experts Forum in BioInterventional Cardiology (San Francisco)
1999 New Era Cardiac Care: Innovation & Technology (San Diego)
1998 Medicine Meets Virtual Reality @ Stanford
1997 Complex Coronary and Vascular Interventions: A Live Demonstration Course
Minimally Invasive Coronary Surgery: An Expert's Forum
Patent/Start-Up 101
1997 "IVUS Simulcourse": Practical Intravascular Ultrasound for the Interventionalist
1996 Intravascular Ultrasound for the Interventionalist (Stanford, CA)
1995 Fellows Course in Interventional Cardiology (Stanford, CA)

University Courses- Director

2011-present Global Biodesign – Medical Technology in an International Context BioE 371
2003-present BioE 374 A, B – Biodesign Innovation
2003-2008 Med 276 Careers in Biomedical Technology
1999-2002 Med272 A, B – Biomedical Technology Innovation
1999-2000 ME 194/384 Medical Device Design, Course Co-Organizer
1998-present ME 289 Medical Device Forum, Course Co-Director

Biodesign Program - Post-Doctoral and Graduate Fellows Supervised:

2013	Tahel Altman Jing Ming Chew Emma Kim Luong-Van Vijaykumar Rajasekhar Weiming Siow Ryan Van Wert	Rush Bartlett Emma Essock-Burns John Paderi Andy Rink Balaji Teegala Justin Williams	Anirudh Chaturvedi Prashant Jha Yong Cheng Poh Kate Rosenbluth Ivan Tzvetanov
2012	Dan Azagury David Camarillo David Gal Siddhartha Joshi Justin Phoon Luke Tay	Siraj Bagwan Jagdish Chaturvedi Kate Garrett Tze Kiat Ng Jonathan Pillai Pearline Teo	Buzz Bonneau Jonathan Coe Swami Gnanashanmugam Jeremy Koehler Insoo Suh Jasmine Zia
2011	Michael Ackermann Matthew Callaghan Chinmay Deodhar Fiona Loke Ravi Pamnani Garrett Smith	Avijit Bansal Avyesha Chaudhary Brandon Felkins Victor McCray Michael Schaller Iris Tan	Joelle Barral Mridusmita Choudhury Henry Ho Ashish Nimgaonkar Siddhartha Sinha Anthony Tang
2010	Pedram Afshar Pushkar Ingale Partha Ray Sandra Ruggles Aravind Swaminathan Rhunjay Yu	Ellis Garai Ritu Kamal Pulin Raje Akhilesh Sista Asokan Thondiyath	Gita Handa Darshan Nayak Rahul Ribiero Nitin Sisodia Fletcher Wilson
2009	Jake Brenner Joelle Faulkner Greg Magee John Avi Roop	Kevin Chao Srinivas Kiran Jaggu Erika Palmer Amit Sharma	Nishtith Chasmawala Jayant Karve Ruey Peh Sandeep Singh
2008	David Boudreault Ron Jou Nandan Lad	Zachary Edmonds Marie Johnson Beverly Tang	Brian Fahey Dorothea Koh Jamie vanHofften
2007	Venita Chandra Basil Hantash Oscar Dominguez-Miranda Richard Vecchiotti Kenneth Wu	Steve Eichmann Zach Malchano Santiago Torres-Ocejo Ross Venook	Joel Goldsmith David Meister Tatum Tarin James Wall
2006	Kit Au-Yeung Joe Knight Carlos Mery	Gary Binyamin Uday Kumar Bilal Shafi	Jessica Hudak Bryant Lin John White
2005	Corinne Bright Henry Chen	Shubhayu Basu Ken Martin	Todd Brinton Dan Riskin
2004	Evan Anderson Amrish Walke	Jeremy Johnson Russell Woo	Kelly Richardson
2003	Aimee Angel	Dan Francis	William Overall
2002	Amir Belson Nick Mourlas	Chris Eversull Asha Nayak	David Miller

Bioengineering – PhD Committees:

2012	Javier Guniard, Bianca Kapoor, Jane Shin
2011	Gabriel Sanchez, Ellis Garai
2010	Eric Chehab, Patrick Ye
2009	Livia Zarnescu, Andreina Parisi-Amon
2008	Gilwoo Choi, Richard Gaster,
2007	Gabriel Sanchez
2006	Jordan Nevo, Kristen Fuchs, Atia Naim, Elbert Shang Hu, Kitch Wilson, James Wall, Elbert Hu
2005	Sanaz Saatchi, Oluwatosin Oyeniran, Lisa Cho, Ian Ying-Li Chen, Ivan Tzetanov,
2004	Joan Greve, Surag Mantri
2003	Jennifer Blundo
1999	Hyeonsoo Chang

Media Reports (Selected)

2010	“Stanford Biodesign, a Hothouse for Medical Devices, Shares its Secret Sauce for Invention: <u>Xconomy</u> (June 2010)
2009	“Lessons from a Frugal Innovator” <u>The Economist</u> , 2009
2007	“Mending Broken Hearts” <u>National Geographic</u> (1997)
2000	“High Tech Transfer” <u>In Vivo Magazine</u> , 2000
1997	New ultrasound catheters for clot disruption <u>New York Times</u> (March, 1997)
1995	KRON TV: "Health Matters" Interview
1994	Interview and Case Demonstration of Intravascular Ultrasound CNN, "Health Week" (March, 1994)
1994	"Intravascular Ultrasound" <u>Omni Magazine</u> (Feb, 1994)
1992	"Inventing the Dream" KPIX (Channel 5) special program on Bay Area Inventors (Oct, 1992)
1992	"Ultrasound Guides a Drill to Unclog Heart Arteries" <u>New York Times</u> (May, 1992)

Selected University Appointments and Committees

UCSF

Associate Director, Cardiac Catheterization Laboratory (1986-1994)
Associate Staff Member, Cardiovascular Research Institute (1986-1994)
Faculty, U.C.S.F./U.C. Berkeley Graduate Group in Bioengineering (1988-1994)
Acting Director, Cardiology Animal Laboratories (1987-88)
Member, Department of Medicine Internship Selection Committee (1988-1993)
Chairman, Department of Medicine Quality Assurance Committee (1988-1991)

Stanford

Member, Dean's Committee on the Transition from Clinical Innovation to Human Subjects Research (2010-2011)
Leadership Group, Stanford CTSA application and program (2007-present)
Public Private Partnership Task Force on Core Competencies; CTSA (2010-2011)
Faculty Advisor, Stanford Student Biodesign (2002-present)
Member, Leadership Council, BioX (2000-present)
Director, Center for Research in Cardiovascular Interventions (1994- 2000)
Director, Cardiology Animal Laboratories (1994-2000)
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, Planning Committee, School of Medicine Campaign (2000-2001)
Member, Dean's Search Committee (2000-2001)
Member, Enterprise Scholars Committee (2000)
Member, School of Medicine, Appointments and Promotions Committee (1999-2002)
Member, Biomedical Engineering Initiative Planning Committee (1999-2002)
Member, Advisory Committee, Veterinary Service Center (1999 –2001)
Member, BioX Space/Facility Committee (1999-2000)
Member, Advisory Board, Stanford Technology Ventures Programs (1998-present)
Director, Medical Device Network (1997-2001)
Member at Large, Medical School Faculty Senate (1997-1999)
Dean's Task Force on Academic/Industry Alliance (1996)

University of Minnesota

Member, External Scientific Advisory Board, Institute for Engineering in Medicine (2009-present)

University of Washington

Member, Advisory Board for Department of Bioengineering (2008-2010)

National, State, Governmental Committees

National Center for Advancing Translational Sciences Advisory Council (NCATS) (2012-)
Long-range Planning Committee, Biomedical Engineering Society (BMES) (2007-2009)
Finance Committee, American Institute for Medical and Biological Engineering (2005-2008)
Founder, Biomedical Engineering Innovation, Design & Entrepreneurship Alliance (2003 – present)
American Heart Association, Liaison to Council on Cardiovascular Disease in the Young (2009)
California Health Care Institute, Sacramento Panel (2003)
Medical Technology Leadership Forum (1997-2003; Board of Directors (1998-2003)
American Heart Association, Cardiac Imaging Committee (1998-2004)
American College of Cardiology: Cardiovascular Imaging Committee (1998)
American College of Cardiology: Educational Products Committee (1997-1999)
Association of Professors of Cardiology (1996-present)
American College of Cardiology, California, Chapter Alternate Delegate (1991-92)
American Heart Association, California Chapter, Steering Committee (1989)
American Heart Association, San Francisco Chapter, Professional Education Committee (1989)
American Heart Association, San Francisco Chapter, Planning Committee (1988-1992)

Editorial Boards

Editorial Advisory Board, Intravascular Imaging (1997-2000)
Editorial Advisory Board, Interventions (1997-2000)
Editorial Board, The Journal of Invasive Cardiology (1995-2005)
Editorial Board, American Journal of Cardiology (1993-1995; 1996-2002)
Editorial Consultant, Journal of the American College of Cardiology (1993-1997)
Editorial Board, Circulation (1992-2006)

Other Peer Review Activities

Reviewer for:

American Heart Journal
Annals of Biomedical Engineering
Catheterization and Cardiovascular Diagnosis
Coronary Artery Disease
European Heart Journal
Journal of Interventional Cardiology
Journal of the American Society of Echocardiography
Journal of Ultrasound in Medicine and Biology

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
4. **Yock P.** Ultrasound imaging probe with zero dead space. Issued February 13, 1990; US patent no. 4,899,757
5. **Yock P.** Method for intravascular two-dimensional ultrasonography and recanalization. Issued March 19, 1991; US patent no. 5,000,185
6. **Yock P.**, Arenson J. Laser catheter with imaging capability. Issued June 9, 1991; US patent no. 5,029,588
7. **Yock P.** Angioplasty method. Issued August 20, 1991; US patent no. 5,040,548.
8. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued October 29, 1991; US patent no. 5,061,273
9. **Yock P.** Angioplasty apparatus facilitating rapid exchanges and method. Issued April 5, 1994; US patent no. 5,300,085
10. **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
11. **Yock P.** Method and apparatus for intravascular two-dimensional ultrasonography. Issued May 24, 1994; US patent no. 5,313,949.
12. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued September 27, 1994; US patent no. 5,350,395
13. **Yock P.** Method of coronary plaque removal with bypass and perfusion. Issued September 19, 1995; US patent no. 5,451, 207
14. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued September 19, 1995; US patent no. 5,451,233.
15. Horzewski, **Yock, P.** Reinforced balloon dilatation catheter with slitted exchange sleeve and method. Issued March 5, 1996; US patent no. 5,496,346
16. **Yock P.** Angioplasty apparatus facilitation rapid exchange and method. Issued March, 26, 1996; US patent no. 5,501,227

17. **Yock P.** Method and apparatus for intravascular ultrasonography. Issued December 10, 1996; US patent no. 5,582,178
18. **Yock P.**, et al. Rotational correlation of intravascular ultrasound image with guide catheter position. Issued January 28, 1997; US patent no. 5,596,990
19. Horzewski MJ, **Yock P.** Reinforced balloon dilatation catheter with slitted exchange sleeve and method. Issued May 6, 1997; US patent no. 5,626,600
20. **Yock P.** Method and apparatus for intravascular. Issued July 29, 1997; US patent no. 5,651,364
21. **Yock P.** Method and apparatus for intravascular ultrasonography. Issued October 14, 1997; US patent no. 5,676,151
22. **Yock PG.** Angioplasty apparatus facilitating rapid exchange. Issued November 11, 1997; US patent no. 5,685,312
23. **Yock, P** et al. Rotational correlation of intravascular ultrasound image with guide catheter position. Issued March 10, 1998; US patent no. 5,724,977
24. **Yock, Paul G.** Method of using angioplasty apparatus facilitating rapid exchanges. Issued May 12, 1998; US patent no. 5,749,888
25. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued June 23, 1998; US patent no. 5,769,868.
26. **Yock P.** Method and apparatus for intravascular ultrasonography. Issued February 2, 1999; US patent no. 5,865,178
27. **Yock P.** Method and apparatus for intravascular ultrasonography. Issued May 11, 1999; US patent no. 5,902,245
28. **Yock P.** Rotational correlation of intravascular ultrasound image with guide catheter position. Issued March 9, 1999; US patent no. 5,879,305
29. **Yock P.** Treating a totally or near totally occluded lumen. Issued February 2, 2000; US patent no. 6,027,450
30. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued March 14, 2000; US patent no. 6,036,715
31. **Yock P.** Angioplasty apparatus facilitating rapid exchanges. Issued December 26, 2000; US patent no. 6,165,197
32. **Yock P.** Method and apparatus for intra-vascular two-dimensional ultrasonography. Issued April 24, 2001; US patent no. 6221,015
33. **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

34. **Yock, P.** Method and apparatus for intra-vascular two-dimensional ultrasonography. Issued June 25, 2002; US patent no. 6,409,673
35. **Yock, P.** Method and apparatus for intra-vascular two-dimensional ultrasonography. Issued June 3, 2003; US patent no. 6,572,554
36. **Yock, P.** Angioplasty apparatus facilitating rapid exchanges. Issued June 10, 2003; US patent no. 6,575,993
37. **Yock, P.** Angioplasty apparatus facilitating rapid exchanges. Issued July 1, 2003; US patent no. 6,585,657
38. **Yock, P.** Angioplasty apparatus facilitating rapid exchanges and methods. Issued March 9, 2004; US patent no. 6,702,750
39. **Yock, P.** Methods and apparatus for intravascular two-dimensional ultrasonography. Issued July 20, 2004; US patent no. 6,764,450
40. **Yock, P.** Angioplasty apparatus facilitating rapid exchanges and method. Issued July 26, 2005; US patent no. 6,921,411
41. **Yock, P.** Method and apparatus for intravascular two-dimensional ultrasonography. Issued November 7, 2006; US patent no. 7,131,948
42. **Yock, P.** Devices and bandages for the treatment or prevention of scars and/or keloids and methods and kits therefore. Issued March 23, 2010; US patent no. 7,683,234
43. **Yock, P.** Combination Sensor Guidewire and Methods of Use. Issued July 31, 2012; US patent no. 8,277,386
44. **Yock, P.** Multi-Channel Catheter Tip. Issued October 2, 2012; US patent no. 8,280,495
45. **Yock, P.** Connectors for Bifurcated Stent. Issued January 1, 2013. US patent no. 8,343,211
46. **Yock, P.** Treatment Devices and Methods with Extending Elements. Issued March 5, 2013; US patent no. 8,389,791
47. **Yock, P.** Use of UTP for the Diagnosis of Stenoses and other conditions of restricted blood flow. Issued March 12, 2013; US patent no. 8,394,355

(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*, 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: 565-571, 1985.
6. Popp RL, **Yock PG**. Noninvasive intracardiac pressure measurement using Doppler ultrasound. *J Am Coll Cardio.* 6: 757-758.
7. 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.
8. 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.
9. 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.
10. 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.
11. **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.
12. **Yock PG**, Johnson EL, Linker DT. Intravascular ultrasound: Development and clinical potential. *Am J Card Im.*, 2(3): 185-193, 1988.
13. 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.
14. 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.
15. 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.
16. **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.
17. **Yock P**, Linker D, White N et al. Clinical applications of intravascular ultrasound imaging in atherectomy. *Int J Card Imag.*, 4: 117-125, 1989.

18. 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.
19. **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.
20. 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.
21. 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.
22. 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.
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