



NEW MEXICO HIGHLANDS UNIVERSITY®

Name

Ernest Richard (Dick) Greene

Titles

Professor of Engineering and Biology,
NMHU and Medicine, UNMSOM/SOE
Research Professor of Engineering



Place of Birth

Albuquerque, New Mexico

Nationality

U.S. Citizen

Education

Rice University, Houston, Texas

Rice University, Houston, Texas

Colorado State University, Ft. Collins

Degree

B.S.

MME.

Ph.D.

Year

1970

1971

1975

Field

Mechanical Engineering

Mechanical Engineering

Mechanical/Bioengineer

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Language Ability: English, Spanish, Portuguese, some German.

Experience (Last/highest position given)

- 1971-1972 Project Engineer, Offshore Construction, Brown and Root, Inc., Bahrain, England, and Abu Dabi
- 1972-1973 Construction/Combat Engineer, First Lieutenant, Platoon Leader, U.S. Army Corps of Engineers, Virginia and Kansas
- 1973-1975 Graduate Research Assistant, Mechanical/Biomedical Engineering, Colorado State University, Ft. Collins
- 1976-1978 Visiting Professor of Biomedical Engineering, University of Brazil, Rio de Janeiro, and University of Chile, Santiago
- 1978-1991 Director, Cardiovascular Laboratory, Lovelace Institutes, Albuquerque, New Mexico
- 1983 Visiting Professor of Medicine, Medical Ultrasound Society of China, Beijing and Shanghai, Peoples Republic of China.
- 1985-1986 Visiting Professor of Medicine, NIH Fogarty International Fellow, Green Lane Hospital, University of Auckland, New Zealand
- 1988-1990 Visiting Scientist, Denali Medical Research Project, Anchorage, Alaska
- 1991-1998 Professor of Engineering, Chair, Engineering Program, New Mexico Highlands University, Las Vegas, New Mexico
- 1993-1995 Visiting Scientist, Leh Regional Hospital, Ladakh, India
- 1994-1998 Director, NIH Programs, New Mexico Highlands University, Las Vegas, New Mexico
- 1996-1998 Visiting Professor, Sustainable Resource Development Program, Luna Vocational Technical Institute, Las Vegas, New Mexico
- 1978-1991 Senior Scientist, Lovelace Institutes, Albuquerque, New Mexico
- 1997-Present Visiting Professor, CMRC, University of Copenhagen, Denmark
- 1998 Visiting Scientist, EV-K2-CNR Project, Pyramid, Mt Everest Region, Nepal
- 2002 Visiting Professor of Engineering/Biology, NM Tech, Socorro, NM.
- 2008 Visiting Professor of Bioengineering, University of Canterbury, Christchurch, New Zealand
- 2008-Present Visiting Professor of Engineering, Polytechnic University of Namibia, Windhoek, Namibia

- 2008 Visiting Scientist, San Andres SOM, La Paz, Bolivia.
 1992-Present Professor of Engineering and Biology, Dept of Biology and Chemistry, and Dept of Computer and Mathematical Sciences (Joint Appointment) New Mexico Highlands University, Las Vegas, NM
 1982-Present Research Professor of Engineering and Medicine, UNMSOM/SOE, Albuquerque, NM

Professional Appointments, Honors, and Awards

Institutional Valedictorian and Scholar/Athlete of the Year - New Mexico Military Institute, 1966
 Member- Alumni Hall of Fame, New Mexico Military Institute, 2007
 Academic Full Scholarship - Rice University, 1966-71
 Dean's List - Rice University, 1968-71
 Honor Graduate - U.S. Army Engineer School, 1972
 Lovelace Foundation Outstanding Investigator Award, 1981
 Research Review Committee - American Heart Association, 1984-1997
 NIH Fogarty Senior International Fellowship, 1985-1986
 National Young Investigator Award - American Academy of Orthopaedic Surgery, 1986
 Chair- Institutional Review Board, Lovelace Institutes, 1986-1988
 Invited Player- New Zealand Invitational Rugby Club "Barbarians", 1986
 Editorial Board - Journal of Ultrasound in Medicine, 1981-2001
 National Chairperson - Cardiology Section - American Institute Ultrasound in Medicine, 1993-2001
 Ivan Hilton Award - NMHU Outstanding Service, 1994
 Medical Volunteer of the Year - American Heart Association, 1995
 Chair - Research Committee - American Heart Association Affiliate, 1993-1995
 Board of Governors Nominee - American Institute of Ultrasound in Medicine, 1994
 Chair - Research Committee - American Heart Association, 1995-1997
 Board of Directors - American Heart Association Affiliates, 1996-1998
 NIH Study Section Member (Adhoc) 1996 – Present
 Invited Lecture: Danish Royal Academy of Science, 2000
 Professor of the Year, Danish Cardiovascular Society, University of Copenhagen, 2008
 Chaired numerous faculty committees
 Invited Lecturer > 60 times worldwide

Reviewer

Circulation	Ultrasound in Medicine and Biology
American Journal of Cardiology	American Heart Journal
Hypertension	Journal of Biomechanics
Journal of Clinical Ultrasound	Journal of Experimental Physiology
American Journal of Physiology	Journal of Applied Physiology
Kidney International	American Heart Association
IEEE Transactions in Biomedical Engineering	Aviation, Space, and Environmental Medicine
American Journal of Obstetrics & Gynecology	IEEE Transactions in Medical Imaging
New England Journal of Medicine	Journal American Medical Association

Courses Taught (NMHU, UNMSOM; LCC, NMT, UNMSOE)

(Student evaluations: Outstanding; Taught 88 courses in 19 years (1992-2010))

Algebra Physics	Medical Ultrasonics
Calculus Physics 1 and 2	Cardiovascular Physiology
Introduction to Engineering	Hemodynamics
Vector Mechanics: Static	Biology for Life Scientists
Vector Mechanics: Dynamics	Biology for Non-Scientists
Fluid Dynamics	Seminars in Life Sciences
Thermodynamics	Clinical Instrumentation
Transport Phenomena	Human Anatomy and Physiology
Environmental Engineering	Engineering Design
Sustainable Resource Development	Appropriate Technology
Experimental Methods and Statistics	Elementary Physics
Senior Design	Freshman Seminar
Introduction to Bioengineering	Survey of Bioengineering
Research Methods for Life Scientists	

Affiliations (past and present)

ASME	General Electric
Biophysical Society of America	Siemens Medical
Texas Professional Engineer	Hewlett-Packard
Founding Member of the Brazilian Biomedical Engineering Society	Advanced Technology
Founding Member of the Brazilian Ultrasound in Medicine Society	Laboratories
American Heart Association	Unigon Industry
Alliance for Engineering in Medicine and Biology	Cardionics
American Institute Ultrasound in Medicine	Cardiovascular Devices
Physics in Medicine and Biology	NASA
American Physiological Society	Acuson
Sandia National Laboratory	US Patents 1980, 1995, 1996

Research Grants Funded

1. World Health Organization- Principal Investigator; Medical Ultrasonics in Brazil \$70,000; 1977-1978.
2. DOE.SNL- Co-Investigator; Automatic Stress/Duress Monitor; \$22,000; 1978-1979.
3. American Heart Association - New Mexico Affiliate - Co-Investigator; Dopplercardiographic assessment of aortic stenosis; \$17,000; 1979-1980.
4. Veteran's Administration Merit Review - Co-Investigator; Dopplercardiographic assessment of mitral and aortic valve disease; \$152,000; October, 1979 - October 1980.
5. NIH - RO1, Principal Investigator; Noninvasive characterization of transpulmonic flow; \$116,354; August 1, 1980 - June 31, 1982.
6. American Heart Association New Mexico Affiliate - Principal Investigator; Noninvasive assessment of left main coronary artery blood flow; \$18,465; July 1, 1980 - June 30, 1981.
7. NIH - RO1, Principal Investigator; Noninvasive studies of pulmonary blood flow; \$128,000; November 1982 - October 1984.

8. NIH - RO1, Principal Investigator; Noninvasive studies of coronary artery blood flow; \$422,836; August 1, 1981 - July 31, 1984.
9. Orthopaedic Research and Education Foundation - Co-Investigator; Arterial blood flow measurements in the adult upper extremity; \$20,253; April 1, 1981 - March 31, 1983.
10. American Heart Association New Mexico Affiliate - Co-Investigator; In Vivo Velocity Measurements Using Velocimeter Catheters; \$7,812; July, 1982 - June, 1983.
11. Veteran's Administration Merit Review - Co-Investigator; Noninvasive studies of renal blood flow; \$63,000; October, 1982 - October, 1984.
12. American Heart Association New Mexico Affiliate - Co-Investigator; Effects of exercise on myocardial perfusion and function; \$6,756; July, 1983 - June, 1984.
13. American Heart Association New Mexico Affiliate - Co-Investigator; Doppler detection of abnormal left ventricular relaxation; \$12,108; July, 1983 - June, 1984.
14. American Heart Association New Mexico Affiliate - Co-Investigator; Echo-Doppler estimation of cardiac output three methods evaluated; \$8,100; July, 1983 - June, 1984.
15. NIH - RO1, Co-Investigator; Noninvasive studies of upper extremity blood flow; \$112,000; November, 1983-October, 1986.
16. NIH - Fogarty Senior International Fellowship; Dopplerechocardiography in New Zealand; \$35,000; September, 1985 - September, 1986.
17. American Academy of Orthopaedic Surgeons - Young Investigators Award; Pulsed Doppler Velocimetry in the assessment of microvascular hemodynamics; \$5000; November, 1985.
18. Clinical Research Center/UNM - Co-Investigator; Age-related differences in human regional blood flow; \$6,000, June, 1987 - June, 1988.
19. American Federation of Aging Research - Principal Investigator; Age-related differences in human regional blood flow; \$25,000, August, 1988 - August, 1989.
20. Clinical Research Center/UNM - Co-Investigator; Human regional blood flow during acute renal failure; \$6,000, June, 1988 - June, 1989.
21. American Heart Association New Mexico Affiliate - Co-Investigator; Age-related differences in cerebral blood flow during exercise; \$11,976; June, 1989-June 1990.
22. Clinical Research Center/UNM - Co-Investigator; autoregulation of cerebral blood flow in patients on hemodialysis; \$6,000, January-June 1990.
23. American Heart Association - Co-Investigator; Effects of high altitude pulmonary edema on pulmonary hemodynamics; \$28,000, June 1989-June 1991.
24. NIH/CRC/UNM - Co-Investigator; Catecholamine regulation of ketogenesis \$8000, January-Dec. 1991.
25. NASA - Co-Investigator; Interaction of hypoxia and simulated microgravity; \$88,000, October 1990-April 1992.
26. NIH/CRC/UNM - Co-Investigator; Effects of nasal continuous positive on human cardiac output and cerebral blood flow; \$4000, June 1991-December 1991.
27. NASA - Co-Investigator; In-suit Doppler system for EVA; \$17,000, June 1991-December 1991.
28. NIH/CRC/UNM - Co-Investigator; Acute hemodynamic effects of recombinant human erythropoietin; \$4800, October 1991 - March 1992.
29. NIH/CRC/UNM - Co-Investigator; Effects of lower body negative pressure on human renal blood flow; \$4,800; January 1992-August 1992.
30. NSF/CIMD - Principal Investigator; Noninvasive human blood flow measurements; \$1875; January 1992 - June 1992.
31. NSF/CIMD - Principal Investigator; Signal analysis of Doppler flowmetry; \$1938; September 1992-December 1992.
32. NSF/CIMD - Principal Investigator; Doppler spectrum analysis, phase II; \$1092; Jan. 1993-June 1993.
33. NMHU Faculty Research Fund; Simplified method for estimation of human peripheral blood flows using Doppler flowmetry; \$400; January 1993-June 1993.

34. NASA - Collaborator; An integrated approach to engineering education in a rural community; \$148,708; January 1993-December 1994.
35. NIH - Program Director; Biomedical student mentorship in northern New Mexico; \$307,701; October 1994-September 1996.
36. NIH - Program Director; Biomedical student mentorship in northern New Mexico; \$517,255; October 1996-September 1999.
37. NIH - Principal Investigator; Age-related differences in human regional blood flows; \$291,689; August 1996 - June 2000.
38. NIH - Program Director; MBRS at NMHU; \$1,886,430; August 1996 - June 2000.
39. NSF - Program Director, AMP at NMHU, \$43,500, January 1996 - December 1996.
40. NIH - Program Director, Equipment enhancement at NMHU, \$254,000, January 1997 - December 1997.
41. NSF - Program Director, AMP at NMHU, \$65,000, January 1997 - December 1997.
42. NSF - Program Director, AMP at NMHU, \$39,000, January 1998 - December 1998.
43. NIH - RO1, Collaborator; Effects of barometric pressure and hypoxia on human ventilation and fluid homeostasis; \$700,974; April 1996 - March 1999.
44. NSF - Principal Investigator, Pulmonary vascular impedance, \$ 2638; January 1997 - June 1997.
45. NIH - Program Director, MBRS Supplemental; \$752,627; August 1998 - July 2000.
46. NIH - RO1, Consultant; Oxygen transport and utilization: the effect of age, \$1,656,502; 05/01/00-04/30/05, UCSD July 2001-July 2005.
47. AHA- GIA, Consultant; Skeletal muscle blood flow and metabolism in congestive heart failure. \$72,500; UCSD. Jan 2001- Jan 2004.
48. NIH-RO1, Principal Investigator, Age-related differences in human regional hemodynamics in children and octogenarians, \$1,037,811; In revision, 2010. Current priority score: 171.
49. NIH- RO1, Consultant, Mechanisms of stroke in Libman-Sacks (Lupus) Endocarditis. 07/01/05-06/30/10, \$2,866,876, Funded, 2006-11.

Books

1. Altobelli SA, Voyles WF, Greene ER, eds. Cardiovascular Ultrasonic Flowmetry. New York: Elsevier, North Holland, 1985.
2. Freeman S, Fukushima E, Greene ER, eds. Noninvasive Techniques in Biology and Medicine. San Francisco: San Francisco Press, 1990.

Chapters in Books

1. Eldridge MH, Berman W, Greene ER, Hartley C, Yabek S. Noninvasive pulsed Doppler blood flow measurements in normal and premature newborn infants. In: Rolfe P, ed. Fetal and Neonatal Physiological Measurements. London: Pitman Medical, 1981.
2. Greene ER. Noninvasive measurement of blood flow using pulsed Doppler ultrasound. In: Loeppky JA, Riedesel ML, eds. Oxygen Transport to Human Tissues. New York: Elsevier, North Holland, 1981:133-50.
3. Loeppky JA, Greene ER, Hoekenga DE, Mathews EC, Luft UC. Instantaneous stroke volume in exercising man measured by pulse Doppler echocardiography. In: Kenner T, Busse R, Hinghofes-Zalkay H, eds. Cardiovascular System Dynamics: Models and Measurements. New York: Plenum Press, 1982.
4. Greene ER, Eldridge MW, Voyles WF, Miranda FG, Davis JG. Quantitative evaluation of atherosclerosis using Doppler ultrasound. In: Bond MG, Insull W, Glagov S, Chandler AB, Cornhill F, eds. Clinical Diagnosis of Atherosclerosis. New York: Springer-Verlag, 1983.
5. Avasthi PS, Voyles WF, Greene ER. Noninvasive diagnosis of renal artery stenosis and renal vein thrombosis by Doppler velocimetry. In: Gordon ES, ed. Advances in Noninvasive Nephrology.

- London: John Libbey and Co., 1986.
6. Voyles WF, Avasthi PS, Greene ER. Noninvasive hemodynamic characterization of normal renal vascular systems using Doppler ultrasound. In: Gordon ES, ed. Advances in Noninvasive Nephrology. London: John Libbey and Co., 1986.
 7. Greene ER. Noninvasive Doppler studies of human regional blood flow. In: Kennedy WA, ed. Progress in Cardiology, Medical Publishing Enterprise, November 1989.
 8. Greene ER. Physical principles of Doppler flowmetry. In: Ferretti G, Salamone A, eds. Clinical Ultrasound: Recent Progress and Future Prospectives. New York: Elsevier, North Holland, 1989.
 9. Tawney KW, Greene ER. Physical principles of Doppler flowmetry. In: Freeman S, Fukushima E, Greene ER, eds. Noninvasive Techniques in Biology and Medicine. San Francisco: San Francisco Press, 1990.
 10. Johnson EC, Greene ER. Practical aspects of ultrasonic Doppler flowmetry. In: Freeman S, Fukushima E, Greene ER, eds. Noninvasive Techniques in Biology and Medicine. San Francisco: San Francisco Press, 1990.
 11. Avasthi PS, Tawney KW, Greene ER. Noninvasive Doppler evaluation of human renal blood flow. In: Luscher TF, Kaplan NM, eds. Renovascular and Renal Parenchymatous Hypertension: Pathology, Diagnosis, and Management. New York: Springer-Verlag, 1992.
 12. Avasthi PS, Greene ER. Future applications of Doppler ultrasound in renovascular disease. In: Luscher TF, ed. Renovascular Disease, Berlin, Springer-Verlag, 1995.
 13. Greene ER. Doppler ultrasound blood flow and tissue perfusion. In: Sanders MF and Secher NA, ed. Methods in Human Cardiovascular Research, Copenhagen, CADL Publishers, 2010. In preparation.

Published Manuscripts in Peer-Reviewed Journals

(Papers in preparation for mainstream journals have been presented and abstracted at international meetings)

1. Greene ER, Histan M, Miller C. Ultrasonic blood flow measurements: transcutaneous compared with implanted cuff. *Instrument Society of America Transactions* 1976;15:88-94.
2. Greene ER, Histan M. Ultrasonic assessment of simulated atherosclerosis. *Phys Med Biol* 1977; 22:146-7.
3. Greene ER, Jedlicka K, Machado J, Werneck M, Hartley C. Development of diagnostic Doppler ultrasonics in Brazil. *J Bioengr* 1978;2(3):299-332.
4. Greene ER, Histan MB. Ultrasonic assessment of simulated atherosclerosis-in vivo and in vitro comparisons. *ASME J Biomech Eng* 1978;101(1):73-81.
5. Tuttle WC, Davis JG, Greene ER. Development of an automated stress/duress detection system. *Biomed Sci Instrum* 1979;15:37-44.
6. Eldridge M, Greene ER, Berman W, Hartley C, Yabek S. Ultrasonic pulsed Doppler characterization of the human neonatal peripheral circulation. *Biomed Sci Instrum* 1979;15:77-90.
7. Greene ER, Richards KL, Nelson C, Davis J. Variable sample volume dimension in pulse Doppler echocardiography. *Biomed Sci Instrum* 1979;15:91-100
8. Davis JG, Richards KL, Greene ER. A sample volume tracking unit for pulsed Doppler echocardiography. *IEEE Trans Biomed Eng* 1979;BME-26(5):285-8.
9. Loeppky JA, Richards KL, Greene ER, Eldridge MW, Hoekenga DE, Venters MD, Luft UC. Instantaneous stroke volume in man during lower body negative pressure (LBNP). *Physiologist* 1979;22(6):S81-2
10. Greene ER, Blair WF, Hartley CJ. Noninvasive pulsed Doppler blood velocity measurement and calculated flows in human digital arteries. *ISA Trans* 1980;20:96-104.
11. Loeppky JA, Greene ER, Hoekenga DE, Venters MD, Eldridge MW. Aortic and tibial blood flow response to lower body negative pressure (LBNP). *Physiologist* 1980;23(6):S141-4.

12. Greene ER, Richards KL, Hoekenga DE, Davis JG. Pulsed Doppler echocardiographic audio spectrum analysis: time interval histogram versus multifilter spectrogram and fast Fourier transform. *Biomed Sci Instrum* 1980;16:134-44.
13. Eldridge MW, Greene ER, Miranda FG, Hartley CJ. Noninvasive pulsed Doppler blood velocity measurement in the human frontal arteries. *Biomed Sci Instrum* 1980;16:67-74.
14. Greene ER, Volpicelli N, French FB. Noninvasive estimation of normal and abnormal portal vein blood flow variables. *J Ultrasound Med*, 1981; 11-17.
15. Greene ER, Venters MD, Conn RL. Noninvasive characterization of normal and abnormal renal artery blood flow patterns using ultrasound echo-Doppler (duplex) scanning. *Biomed Sci Instrum* 1981;17:79-84.
16. Blair WF, Greene ER, Omer GE. A method for the calculation of blood flow in human digital arteries. *J Hand Surg* 1981;6(1):90-6.
17. Blair WR, Greene ER, Eldridge MW, Cipoletti R. Hemodynamics after microsurgical anastomosis: the effects of topical lidocaine. *J Microsurgery* 1981;2:157-64.
18. Loeppky JA, Greene ER, Hoekenga DE, Caprihan A, Luft UC. Beat-by-beat stroke volume assessment by pulsed Doppler in upright and supine exercise. *J Appl Physiol* 1981;50:1173-82.
19. Greene ER, Venters MD, Conn RL, Avasthi PS, Jahnke RW. Noninvasive characterization of renal artery blood flow. *Kidney Int* 1981;20:523-9.
20. Blair WF, Greene ER, Eldridge M, Cipoletti R. Hemodynamic response of small arteries to topical lignocaine. *J Surg Res* 1981;31:77-81.
21. Greene ER, Sutton MF, Johnson EC, Reilly PA. Noninvasive ultrasound Doppler measurements of common femoral artery blood flow variables during supine exercise. *Biomed Sci Instrum* 1982;18:51-65.
22. Voyles WF, Miranda IP, Greene ER, Reilly PA. Observer variability in serial noninvasive measurements of stroke index using pulsed Doppler flowmetry. *Biomed Sci Instrum* 1982;18:67-75.
23. Caprihan A, Greene ER, Loeppky JA, Eldridge MW, Davis JG. Waveform analysis of Doppler ultrasound signals by a microcomputer. *IEEE Trans Biomed Eng* 1982;29:138-42.
24. Greene ER, Eldridge MW, Voyles WF, Miranda FG, Davis JG. Noninvasive quantification of atherosclerosis using Doppler ultrasound. *IEEE Trans Med Imaging* 1982;1:36-52.
25. Blair WF, Gabel RH, Pederson DR, Greene ER. A method for programmed, rapid range control advance with the 20 MHz PUDVM. *Biomed Sci Instrum* 1983;19:25-28.
26. Sutton MF, Greene ER, Johnson EC, Reilly PA. Noninvasive echo-Doppler duplex measurement of common femoral artery blood flow variables during supine exercise and post- occlusion reactive hyperemia. *ISA Trans* 1983;22:47-57.
27. Avasthi PS, Greene ER, Scholler C, Fowler CR. Noninvasive diagnosis of renal vein thrombosis by ultrasonic echo-Doppler duplex flowmetry. *Kidney Int* 1983;23:882-7.
28. Greene ER. Medicion de flugo sanguineo por un metado no invasio. *Revista Medica De Chile* 1983;67:233-45.
29. Greene ER, Avasthi PS, RS Seigel, Voyles WF. Simultaneous invasive and noninvasive renal blood velocity and flow measurements using pulsed Doppler velocimeter. *Biomed Sci Instrum* 1984;20:25-30.
30. Voyles WF, Greene ER, Altobelli SA, Hartley CF. In vitro and in vivo studies using a 4F pulsed Doppler velocimeter catheter system. *Biomed Sci Instrumen* 1984;20:17-24.
31. Loeppky JA, Hoekenga DE, Greene ER, Luft UC. Comparison of noninvasive pulsed Doppler and Fick measurements of stroke volume in cardiac patients. *Am Heart J* 1984;107:339-46.
32. Eldridge MW, Berman W, Greene ER. Femoral blood flow in term and premature infants. *J Ultrasound Med* 1984;3:53-7.
33. Avasthi PS, Greene ER, Voyles WF, Eldridge MW. A comparison of echo-Doppler and electromagnetic renal blood flow measurements. *J Ultrasound Med* 1984;3:208-13.

34. Avasthi PS, Voyles WF, Greene ER. Noninvasive diagnosis of renal artery stenosis by echo-Doppler velocimetry. *Kidney Int* 1984;25:562-71.
35. Raizada V, Schroeder K, Greene ER. Echo-Doppler angle determination for noninvasive transmitral blood velocity calculations in normal and porcine bioprosthetic mitral valves. *ISA Trans* 1984;23:11-5.
36. Greene ER. Noninvasive cardiovascular ultrasonic flowmetry. *ASME J Bio Med Engr* 1985; 108:47-48.
37. Shaw JG, Johnson EC, Greene ER, Voyles WF. Noninvasive Doppler determination of cardiac output during submaximal and peak exercise. *J Appl Physiol* 1985;59 (3):722-31.
38. Voyles WF, Altobelli SA, Fisher DC, Greene ER. A comparison of digital and analog of Doppler spectral analysis for quantifying flow. *Ultrasound Med Biol* 1985;11(5):727-34.
39. Eldridge MW, Berman W Jr., Greene ER. Serial echo-Doppler measurements of human fetal abdominal aortic blood flow. *J Ultrasound Med* 1985;4:453-8.
40. Greene ER, Voyles WF. Noninvasive measurements of regional blood flow. *Postgrad Med* 1985;78(6)165-78.
41. Appenzeller O, Greene ER, Appenzeller M. Doppler common carotid and preauricular blood flows and resistance at altitude: a study of endurance-trained subjects. *Ann Sports Med* 1985;2(3):120-4.
42. Greene ER, Avasthi PS, Voyles WF, Seigel RS. Invasive and noninvasive pulsed Doppler measurement of renal blood velocity and flow. *IEEE Trans Biomed Eng* 1986;33:302-7.
43. Eldridge MW, Berman W, Greene ER. Chronic maternal cigarette smoking and fetal abdominal aortic blood flow in humans. *J Ultrasound Med* 1986;5:131-6.
44. Hauswald M, Greene ER. Aortic blood flow during sequential mast inflation. *Ann Emerg Med* 1986;15:1297-9.
45. Carn RM, Miranda IP, Greene ER. Femoral vein flow velocity for devices used in the prevention of deep vein thrombosis. *Transactions of Orthopaedics* 1986;10:322-7.
46. Greene ER, Caprihan A. Noninvasive Doppler measurements of human left main coronary artery blood flow. *Biomed Sci Instrumen*, 1987;23:69-76.
47. Graettinger WF, Greene ER, Voyles WF. Doppler predictions of pulmonary artery pressure, flow and resistance in adults. *Am Heart J* 1987;113:1426-37.
48. Avasthi PS, Greene ER, Voyles WF. Noninvasive Doppler assessment of human postprandial renal blood flow and cardiac output. *Am J Physiol* 1987;252:F1167-74.
49. Greene ER, Avasthi PS, Hodges JW. Noninvasive Doppler assessment of renovascular hypertension. *J Clin Ultrasound* 1987;15:653-659.
50. Blair WF, Brown TD, Greene ER. Pulsed ultrasound Doppler velocimetry in the assessment of microvascular hemodynamics. *J Orthoped Res* 1988;6:300-309.
51. Greene ER, Caprihan A, Davis JG. Human left main coronary artery blood flow: noninvasive Doppler echocardiography with sample volume tracking. *ISA Trans* 1988;27:43-50.
52. Jaffe WM, Roche ANG, Coverdale HA, McAlister HF, Ormiston JA, Greene ER. Clinical evaluation versus Doppler echocardiography in the quantitative assessment of valvular heart disease. *Circulation* 1988;78:267-275.
53. Johnson EC, Voyles WF, Sutton MF, Atterbom HA, Greene ER. Exercise training and common femoral artery blood flow in patients with intermittent claudication. *Circulation* 1989;80:III59-III72.
54. Greene ER, Avasthi PS. Effect of a high protein meal on blood flow to transplanted human kidneys. *Transplantation* 1989;48:584-587.
55. Johnson EC, Hudson TL, Greene ER. Left ventricular hemodynamics during exercise recovery. *J Appl Physiol* 1991;69(1):104-111.
56. Levine BD, Grayburn PA, Voyles WF, Greene ER, Roach RC, Hackett PH. Intracardiac shunting across a patent foramen ovale may exacerbate hypoxemia in high altitude pulmonary edema. *Ann Intern Med* 1991;114:569-570.

57. Huang SY, Tawney KW, Bender PR, Grover BM, McCullough RE, McCullough RG, Micco AJ, Manco-Johnson M, Cymerman A, Greene ER, Reeves JT. Internal carotid flow velocity with exercise before and after acclimatization to 4300 m. *J Appl Physiol* 1991;71(4):1469-1476.
58. Wood SC, Appenzeller O, Greene ER, Eldridge MW. Arterial oxygen saturation: effect of altitude and pentoxifylline. *J Wilderness Med* 1992;3:250-255.
59. Hackett PH, Roach RC, Hartig GS, Greene ER, Levine BD. The effect of vasodilators on pulmonary hemodynamics in high altitude pulmonary edema: A comparison. *Int J Sports Med* 1992; 13:568-671.
60. Cipoletti RD, Moneim MS, Greene ER. Hemodynamic comparison of microsurgical closures for longitudinal arteriotomies. *Microsurgery* 1993; 14:107-113.
61. Loeppky JA, Roach RC, Selland MA, Scotto P, Greene ER, Luft UC. Effects of prolonged head-down bedrest on physiological responses to moderate hypoxia. *ASEM* 1993; 64:275-286.
62. Cipoletti RD, Moneim MS, Greene ER. Hemodynamic comparison of microsurgical repair of large arterial defects. *Microsurgery* 1994; 15:579-585.
63. Montner PK, Greene ER, Murata GH, Stark DM, Timms M, Chick TW. Hemodynamic effects of nasal and face mask continuous positive airway pressure. *Am J Respir Crit Care Med* 1994; 149:1614-8
64. Malvin GM, Hicks JW, Greene ER. Central vascular flow patterns in the reptile. *Am J Physiol*. 1995; 269: R1133-R1139.
65. Freedman D, Kritz A, Greene ER, Boyle P, Schade DS. Differential effects of catecholamines on hepatic ketogenesis versus hepatic portal vein blood flow in man. *Metabolism*, 1996; 45(10):1214-1220.
66. Greene ER, Gonzalez S, Chacon S, Zou Y. Human phasic blood velocities in the posterior cranial circulation during submaximal exercise. *Stroke* 1996; 26:286-87.
67. Robergs RA, Icenogle MV, Hudson TL, Greene ER. Temporal inhomogeneity in brachial artery blood flow during forearm exercise. *Med Sci Sports Exerc* 1997; 28:1021-1027.
68. Roach RC, Greene ER, Schoene RB, Hackett PH. Arterial oxygen saturation for prediction of acute mountain sickness. *ASEM*, 1998; 69:1182-1185.
69. Bernardi L, Passino C, Robergs R, Greene ER. Cardiovascular autonomic modulation and activity of carotid baroreceptors at altitude. *Clinical Science* 1998; 95:565-573.
70. Hayward WA, Fritz KR, Greene ER. Human middle cerebral artery blood velocity during sexual intercourse. *J Ultrasound Med*; 2000; 19:871-876.
71. Montner P, Zou Y, Robergs R, Murata G, Quinn C, Greene ER. Mechanisms of glycerol induced fluid retention and heart rate reduction during exercise. *J Appl Physiol* 2004;
72. Schneider A, Greene ER, Keyl C, Bernardi L. Peripheral arterial vascular function at altitude: sea-level natives versus Himalayan high-altitude natives. *J Hypertension* 2001; 19:213-222.
73. Greene ER, Diamond S, Saddler M, Avasthi PS. Validation of human renal blood flow by subtraction of noninvasive Doppler determined aortic blood flows. *J Ultrasound Med* 2004;
74. Gentles TL, Neutze JM, Calder AL, Greene ER. Cardiac output in neonates with complex congenital heart disease: validation of a simple, portable Doppler method. *J Ultrasound Med* 2001; 20:365-370.
75. Keyl C, Schneider A, Greene ER, Bernardi L. Effects of breathing control on cardiocirculatory modulation in Caucasion lowlanders and Himalayan Sherpas. *Eur J Appl Physiol* 2000; 83:481-486.
76. Hauswald M, Greene ER. Regional blood flow and pneumatic anti shock garment. *Prehospital Emerg Care* 2003;7:225-28.
77. Greene ER, Roach RC. Invited paper: Doppler ultrasound determination on the distribution of human cardiac output: effects of age and physical stresses. *Proceedings IEEE/EMB* 2004; Sept: 3704-07.
78. Loshbaugh JE, Loeppky JA, Greene ER. Effects of acute hypobaric hypoxia on resting and postprandial superior mesenteric artery blood flow. *High Altitude Medicine and Biology* 2006; 7(1):47-53.
79. Bernardi I, Spadacini G, Passino C, Schneider A, Keyl C, Greene ER. Reduced hypoxic ventilatory response in Himalayan natives: evidence of a different adaptive strategy. *Eur J Appl Physiol* 2007;

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Outside Interests

Environmental / Population Issues/ Permaculture
Farming/ Ranching/Rugby/Mountaineering
Educational Outreach / Water Management

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