

1. Robert A. Guyton, M.D.
2. The Emory Clinic, Inc.  
1365A Clifton Rd., NE, Suite A2223  
Atlanta, GA 30322
3. Telephone: (voice) 404/778-3836
4. Fax: 404/778-5039
5. Citizenship: United States
6. Current Titles and Affiliations (academic/clinical/other):
  - a. Charles Ross Hatcher, Jr. Professor of Surgery  
Emory University School of Medicine, Atlanta, Georgia  
1990 – Present
  - b. Chief, Division of Cardiothoracic Surgery, Department of Surgery  
Emory University School of Medicine, Atlanta, Georgia  
April 1990 – Present
  - c. Director, Cardiothoracic Residency Training Program,  
Emory University School of Medicine, Atlanta, Georgia  
April 1990 – Present
  - d. Chief of Cardiothoracic Surgery  
Emory University Hospital, Atlanta,  
Georgia, April 2006 – Present
7. Previous Academic and Professional Appointments:

Assistant Professor of Surgery Emory University School of Medicine, Atlanta, Georgia,  
January 1980-1984.

Director, Cardiothoracic Research Laboratory, Carlyle Fraser Heart Center, Crawford  
Long Hospital, Atlanta, GA, January 1980-1995.

Associate Professor of Surgery, Emory University School of Medicine, Atlanta, Georgia,  
September 1984-1990.

Co-Director, Emory-Georgia Tech, Biomedical Technology Research Center, Atlanta,  
Georgia, December 1986-1992.
8. Previous Administrative and/or Clinical Appointments:

Chief, Cardiac Surgery, Carlyle Fraser Heart Center, Crawford Long Hospital, Atlanta, GA, March 1987-1995.

9. Licensures/Boards

Georgia State license # 021240

American Board of Surgery, Certificate #25843/25207 issued 10/13/89

Recertified October, 1989

10. Specialty Boards

American Board of Thoracic Surgery, Certificate #3695 issued 5/22/81

Recertified 1991, 2000

11. Education:

June 1967, B.S. in Physics – With Great Distinction, University of Mississippi

June 1971, M.D. - Magna Cum Laude, Harvard Medical School

Coping with the Health Care Revolution (Executive Program for Physicians and Health Care Leaders) Harvard School of Public Health and John F. Kennedy School of Government, May 12-22, 1996.

12. Postgraduate Training:

Assistant Resident in Surgery Massachusetts General Hospital, Boston, Massachusetts, June 1971-1973.

Clinical Associate Surgery Branch National Heart & Lung Institute, Bethesda, MD, July 1973-1975.

Assistant Resident in Surgery Massachusetts General Hospital, Boston, Massachusetts, July 1975-1977.

Senior Resident in Surgery Massachusetts General Hospital, Boston, Massachusetts, July 1977-1978.

Clinical Fellow in Surgery Massachusetts General Hospital, Boston, Massachusetts.

Chief Resident in Cardiothoracic Surgery Children's Hospital Medical Center, Boston, Massachusetts, July 1978-1978.

Chief Resident in Cardiothoracic Surgery Massachusetts General Hospital, Boston, Massachusetts, January 1979-1979.

13. Military Service: Lt. Commander, U.S. Public Health Service  
July 1973 - June 1975

14. Committee Memberships:

a. National/International

Program Committee - The Society of Thoracic Surgeons, 1988-1991.

Committee on Education and Resources - The Society of Thoracic Surgeons, 1989- 1991.

Chairman, Program Committee - The Society of Thoracic Surgeons, 1990-1991.

Chairman, Committee on Scientific Program for 1990 Interim Meeting, The Society of Thoracic Surgeons, Chairman, 1990.

Evarts A. Graham Memorial Traveling Fellowship Committee American Association for Thoracic Surgeons, Chairman 1993-94, 1990-1994.

Joint American Association for Thoracic Surgery/Society of Thoracic Surgeons Committee on Social Responsibility, 1991-1994.

Member, Governing Council, American Association for Thoracic Surgery, 1992-1995.

Coordinating Committee on Continuing Education in Thoracic Surgery (SESATS), 1993-1996.

Chairman, Joint Committee on Thoracic Surgery Education, Society of Thoracic Surgeons and American Association of Thoracic Surgery, Chairman 1995-1996.

Committee on Continuing Medical Education (Post Graduate Course) American Association for Thoracic Surgery, Co-Chairman 1995-1996.

Research Committee: Thoracic Surgery Foundation for Research and Education, 1995-1998.

Treasurer-Elect, Society of Thoracic Surgeons, Treasurer-Elect, 1996-1997.

Thoracic Surgery Representative, Cross-Specialty Validation Panel on Practice Expense, Health Care Financing Administration, November 1997.

The Society of Thoracic Surgeons, Internet Liaison Committee, 1997 – 2000.

The Society of Thoracic Surgeons, Treasurer 1997-2002 and as such I was a member of the following committees: Member: Council, Executive Committee, Annals Liaison Committee, Database Liaison Committee, Finance Committee, Information Technology Liaison Committee, Ad Hoc Committee on Management Evaluation.  
The Society of Thoracic Surgeons, First Vice President 2002-2003.

The Society of Thoracic Surgeons, President 2003-2004.

The Society of Thoracic Surgeons, Executive Committee, 1997 to 2004.

The Society of Thoracic Surgeons, Council member, Council on Health Policy and Relationships, Chair, Workforce on Communication 2005-2009.

Board of Directors, Thoracic Surgery Foundation for Research and Education 2006-Present.

American College of Cardiology/American Heart Association Committee on Guidelines for Coronary Artery Bypass, Chairman, 1997-2006

American College of Cardiology Board of Trustees, 2008 – Present

American College of Cardiology/American Heart Association Workforce on Guidelines 2008-present

American College of Cardiology Compensation Committee 2008- present

American College of Cardiology – member, Board of Finance 2008-present

c. Institutional

Transfusion Committee, Crawford Long Hospital, 1980-1991.

Infection Control Committee, Crawford Long Hospital, 1980-1991.

Surgical Intensive Care Unit, Committee, Chairman, Crawford Long Hospital, 1980-1991.

M.D. - Ph.D. Program Committee, 1980-1983.

Task Force for Study and Revision of the Medical School, Curriculum, 1980-1981.

Search Committee for Dean of the Medical School and for Vice President for Health Affairs, 1983-1984.

Co-Director, Emory-Georgia Tech Biomedical Technology Research Center, Atlanta, Georgia, Co-Director, 1986-1990.

Long Range Planning Committee, Emory University School of Medicine, Subcommittee Chairman, New Program Development, 1986-1988.

University Priorities Committee, Emory University School of Medicine, 1988-1991.

Emory Clinic Board of Directors, Executive Committee, 1991-1993, 1990-1998.

Committee on Undergraduate Curriculum Revision, Pathophysiology Section, Emory University School of Medicine, 1992.

Operations Committee Emory Heart Center, 1993-present.

Board of Directors Emory Heart Center, 1993-present.

Critical Pathway Committee for Cardiac Surgery, Crawford Long Hospital, 1993-1995.

Critical Pathway Task Force for Cardiac Surgery, Emory University Hospital, 1994-present.

Emory Clinic 2000 Health Information Services Committee/Team Chairman of Needs Assessment Subcommittee, 1994-1995.

Search Committee for Chairman Department of Neurological Surgery, 1994-1995.

Faculty Committee on Appointments and Promotions, Office of the Dean, Emory University School of Medicine, 1995 - 1998.

Emory University System of Health Care Internet Committee May, 1995-1997.

Emory Healthcare Information Technology Committee, 1999 - 2001

Emory Healthcare Managed Care Contract Committee, 1999 – 2004

Charter Committee – Emory Heart and Vascular Center 2008 - present

Board and Executive Committee, Emory Heart Center 1999 – present

Advisory Board, Carlyle Fraser Heart Center, Vice-chair 2008 – present

15. Consultantships:

Valve Advisory Board, Medtronic, Inc., 1999 – 2007

16. Editorial Boards:

Clinical Cardiology, 1989 - 1996

Guest editor - Seminars in Thoracic and Cardiovascular Surgery, 1995

The Annals of Thoracic Surgery, 1988 - 1998

17. Manuscript Reviewer:

Journal of the American College of Cardiology  
Circulation

The American Journal of Thoracic and Cardiovascular Surgery

New England Journal of Medicine

18. Honors and Awards:
  - Massachusetts Medical Society, Award for Outstanding Research, Harvard Medical School, 1971
  
  - First Runner-up, Young Investigator's Award, American College of Cardiology, 1976
  
  - Phi Kappa Phi, 1965
  - Omicron Delta Kappa, 1966
  - Alpha Omega Alpha, 1971
  
19. Society Memberships
  - Atlanta Medical Association, 1980 - 2002
  - Georgia Medical Association, 1980 - 2002
  - American Medical Association, 1980 - 2002
  - American Heart Association, 1970 – 2002, 2008-present
  - American College of Cardiology, 1982 - present
  - American College of Surgeons, 1983 - present
  - Southern Thoracic Surgical Association, 1984 - present
  - Andrew G. Morrow Society, 1985 - 1999
  - Society of Thoracic Surgeons, 1986 – present
  - Society for Thoracic Surgery Education, 1987 - 2000
  - American Society for Artificial Internal Organs, 1989
  - American Association for Thoracic Surgeons, 1990 - present
  - Thoracic Surgery Directors Association, 1990 - present
  - Southern Surgical Association, 1991 - 2004
  - American Surgical Association, 1992 - present
  
20. Organization of National or International Conferences:
  
21. Patents
  - a. Pending
    1. A device for lateral traction on tissues during beating heart surgery
    2. Fixation methods for stabilization devices during beating heart surgery
    3. Intraluminal occlusions and stabilization device
    4. Inflatable device for opening the open end of an endoscopic tissue bag
    5. End to end vascular anastomosis utilizing an external wrap in combination with an internal expandable stent, balloon mandrel or rigid tube
    6. External wrap technique for end-to-side anastomosis utilizing an expandable mandrel
    7. A vascular coupling device for end-to-side anastomosis
    8. Balloon device for internal hemostasis of a punch hole in a large vessel to allow subsequent anastomosis to this punch hole

9. Suction forceps for delicate tissue manipulation
  10. Inflatable “cavern” for endoscopic work
  11. Inflatable cannula for vascular access
  12. An automatically expanding and sealing cannula for vascular perfusion
  13. A cutting device for creating circular holes in large vessels using a circular cutting motion
  14. An expandable/collapsible intraluminal stent to prevent venous kinking during cardiac manipulation
  15. A device for proximal vessel occlusion during beating heart coronary artery anastomosis
  16. A device for rapid, minimally traumatic cannulation of vessels for temporary perfusion
  17. A device for lower body pressurization and central displacement of blood volume during thoracic surgery
  18. External stenting for vascular anastomosis
22. Grant Support:
- a. Previous support  
Principal Investigator, NIH 5R01 HL25640, *Myocardial Function in Cardiac Surgery*, Direct Costs, \$61,213 first year; \$62,851 second year, 1980-1982.  
  
Principal Investigator, Medtronic Corporation, *Pre-clinical large animal testing of alpha-aminooleic acid treatment for calcium prevention in porcine bioprosthesis*. Direct Costs \$428,000, 1989-1993.  
  
Principal Investigator, DuPont Laboratories, *Evaluation of University of Wisconsin solution and Pentafraction for enhancement of cardioplegia for heart transplantation*. Direct Cost \$59,000, 1989.  
  
Co-PI Network for Cardiothoracic Surgical Investigations in Cardiovascular Medicine, National Heart, Lung, and Blood Institute, Direct costs minimum \$250, 000 annually 2007-2011.  
  
Co-PI PARTNER Trial (Edwards Laboratory) – Trial of Percutaneous and Transapical Aortic Valve Replacement 2007.
23. Clinical Service Contributions  
Active Adult Cardiac Surgical Practice at Crawford Long Hospital and Emory University Hospital for the last 29 years with 300-380 cases per year
24. Formal Teaching  
Director, Cardiothoracic Surgery Residency Program, 1990 - present
25. Lectureships, Seminar Invitations and Visiting Professorships  
Beth Israel Hospital, Boston, Mass., 1996

Allegheny General Hospital, Pittsburgh, PA, March 2, 1999  
Toronto General, Toronto, Ontario, Canada, April 28, 2000  
Cleveland Clinic, Cleveland, OH, June 1, 2000  
Brigham & Women's Hospital, April 8-10, 2002  
Oregon Health Sciences System, April 28-30, 2002  
George Kaiser Lectureship St. Louis University, May 12, 2004  
Invited seminar, Stanford University, San Francisco, CA, June 28, 2004  
Rush Presbyterian, Chicago, IL, May 12-13, 2005  
James D. Hardy Lecturer in Surgery, Jackson, Mississippi, June 10, 2005  
Alfred Blalock Lecturer, Baltimore, MD, November 3, 2005  
New York University Symposium, Newark, NJ, December 7, 2005  
George Washington University, Washington DC, January 11, 2006  
8<sup>th</sup> Annual Cardiac Symposium, St. Bernardino Medical Center, Ontario, CA, April 29, 2006

26. Invitations to National or International Conferences: Multiple, not tabulated

27. Bibliography

a. Published

1. Bianco JA, Shanahan EA, Ostheimer GW, Guyton RA, Powell WJ, Daggett WM. Cardiovascular effects of diazepam. *J Thorac Cardiovasc Surg* 1971;62:125-130.
2. Bianco JA, Shanahan EA, Ostheimer GW, Guyton RA, Powell WJ, Daggett WM. Effects of glucagon on myocardial oxygen consumption and potassium balance. *Am J Physiol* 1971;221:626-631.
3. Guyton RA, Bianco JA, Ostheimer GW, Shanahan EA, Daggett WM. Adrenergic control of ventricular performance in normal and cardiac denervated dogs. *Am J Physiol* 1973;223:1021-1028.
4. Ostheimer GW, Shanahan EA, Guyton RA, Daggett WM, Lowenstein E. Effects of Fentanyl and droperidol on canine left ventricular performance and oxygen consumption. *Anesthesiology* 1975;42:228-291.
5. Guyton RA. Sub-endocardial ST segment changes during acute coronary occlusion. *Ann Thorac Surg* 1975;20:52-55.
6. Poirier RA, Guyton RA, McIntosh CL. Drip retrograde coronary sinus perfusion for myocardial protection during aortic cross clamping. *J Thorac Cardiovasc Surg* 1975;70:966-973.
7. Guyton RA, Andrews MJ, Hickey PR, Michaelis LL, Morrow AG. The contribution of atrial contraction to right heart function before and after ventriculotomy: experimental and clinical observations. *J Thorac Cardiovasc Surg* 1976;71:1-10.

8. Keiser HR, Andrews MJ, Guyton RA, Margolius HS, Pisano JJ. Urinary kallikrein in dogs with constriction of one renal artery. *Proc Soc Exp Biol Med* 1976;151:53-56.
9. Guyton RA, Daggett WM. Evaluation of myocardial infarction: physiologic basis for clinical intervention. In International Review of Physiology, Cardiovascular Physiology II, Guyton AC, Cowley AW, eds. Vol 9, Baltimore: University Park Press, 305-339, 1976.
10. O'Keefe DD, Grantham RN, Beierholm EA, Zapellakis GZ, Vasu MA, Guyton RA, Daggett WM. Cocaine and the contractile response to catecholamines in right ventricular failure. *Am J Physiol* 1977;233(3):H339-403.
11. McClenathan JH, Guyton RA, Breyer RH, Newman GE, Michaelis LL. The effects of isoproterenol and dopamine on regional myocardial blood flow after stenosis of the circumflex coronary artery. *J Thorac Cardiovasc Surg* 1977;73:431-435.
12. Daggett WM, Guyton RA, Mundth ED, Buckley MJ, McEnany MT, Gold HK, Leinbach RC, Austen WG. Surgery for post-myocardial infarction ventricular septal defect. *Ann Surg* 1977;186:260-271.
13. Guyton RA, McClenathan JH, Newman GE, Michaelis LL. Significance of subendocardial ST segment depression, local ischemia and subsequent necrosis. *Am J Cardiol* 1977;40:373-380.
14. Guyton RA, McClenathan JH, Michaelis LL. The evolution of regional ischemia distal to a proximal coronary stenosis: the self-propagation of ischemia. *Am J Cardiol* 1977;40:381-392.
15. Guyton RA, McClenathan JH, Michaelis LL. A mechanical device for sutureless aorta-saphenous vein anastomosis. *Ann Thorac Surg* 1979;28:342-345.
16. Guyton RA, Jacobs ML, Fowler BN, Geffin GA, O'Keefe DD, Daggett WM. Regional myocardial protection: use of a new method to compare cold potassium cardioplegia with hypothermic coronary perfusion. *Circ* 1980;62(Suppl I):I26-I33.
17. Wheeler EI, Guyton RA, Lappas DG, Daggett WM. Rheumatic mitral valve disease. Tricuspid valve disease. In The Practice of Cardiology, Johnson RA, Haber E, Austen WG, eds. Boston: Little & Brown Co., Chapter 17, 433-470, 1980.
18. Jacocks MA, Weiss M, Guyton RA, Jacobs ML, O'Keefe DD, Geffin GA, Daggett WM. Regional myocardial protection during aortic cross clamping ischemia in dogs: calcium-containing crystalloid solutions. *Ann Thorac Surg* 1980;31:454-463.
19. Johnson RE, Dorsey LM, Moyer SJ, Hatcher CR Jr, Guyton RA. Cardioplegic infusion. The safe limits of pressure and temperature. *J Thorac Cardiovasc Surg* 1982;83:813-823.

20. Kates RA, Kaplan JA, Dorsey LM, Hatcher CR Jr, Guyton RA. The myocardial protective effects of lidoflazine during heterogeneous cold potassium cardioplegia. In International Symposium on Protection of Tissue Against Hypoxia. Wauquier A, Borgers M, Amery WK, eds. Amsterdam: Elsevier Biomedical Press, 417-425, 1982.
21. Johnson RG, Jacocks MA, Aretz TH, Geffin GA, O'Keefe DD, DeBoer LMV, Guyton RA, Fallon JT, Daggett WM. Comparison of myocardial preservation with hypothermic potassium and nifedipine arrest. *Circ* 1982;66(Suppl II):II73-80.
22. Jones EL, Craver JM, Gruentzig AR, King SB, Douglas JS, Bone DK, Guyton RA, Hatcher CR Jr. Percutaneous transluminal coronary angioplasty: role of the surgeon. *Ann Thorac Surg* 1983;34:493-504.
23. Jones EL, Craver JM, Guyton RA, Bone DK, Hatcher CR Jr, Reichwald N. Importance of complete revascularization in performance of the coronary bypass operation. *Am J Cardiol* 1983;51:7-12.
24. Murphy DA, Craver JM, Jones EL, Bone DK, Guyton RA, Hatcher CR Jr. Recognition and management of ascending aortic dissection complicating cardiac and surgical operations. *J Thorac Cardiovasc Surg* 1983;85:247-256.
25. Kates RA, Dorsey LM, Kaplan JA, Hatcher CR Jr, Guyton RA. Pre-treatment with lidoflazine, a calcium-channel blocker: useful adjunct to heterogeneous cold potassium cardioplegia. *J Thorac Cardiovasc Surg* 1983;85:278-286.
26. Guyton RA, Owens JE, Waumett JD, Dooley KJ, Hatcher CR Jr, Williams WH. The Blalock-Taussig shunt: low risk, effective palliation, and pulmonary artery growth. *J Thorac Cardiovasc Surg* 1983;85:917-925.
27. Dorsey LM, Colgan TK, Silverstein JI, Hatcher CR Jr, Guyton RA. Alterations in regional myocardial function after heterogeneous cardioplegia. *J Thorac Cardiovasc Surg* 1983;86:70-79.
28. Guyton RA, Dorsey LM, Colgan TK, Hatcher CR Jr. Calcium-channel blockade as an adjunct to heterogeneous cardioplegia. *Ann Thorac Surg* 1983;35:626-631.
29. Kates RA, Kaplan JA, Guyton RA, Dorsey LM, Hug CC Jr. Hemodynamic interactions of verapamil and isoflurane. *Anes* 1983;59:132-138.
30. Guyton RA. Method and magic in myocardial preservation. In Clinical Essays on the Heart, Hurst JW, ed. New York: McGraw-Hill, Vol. 1, 183-201, 1983.

31. Padgett CA, Williams WH, Michalik RE, Hatcher CR Jr, Guyton RA. Use of the ventilator for circulatory augmentation by intermittent external abdominal compression. *Respiratory Care* 1983;28:1574-1578.
32. McKeown PP, McClelland JS, Bone DK, Jones EL, Kaplan JA, Lutz JF, Hatcher CR Jr, Guyton RA. Nitroglycerin as an adjunct to hypothermic, hyperkalemic cardioplegia. *Circ* 1983;68(Suppl II): II107.
33. Williams WH, Guyton RA, Michalik RE, Plauth WH Jr, Zorn-Chelton S, Jones EL, Rhee KH, Hatcher CR Jr. Individualized surgical management of complete atrioventricular canal. *J Thorac Cardiovasc Surg* 1983;86:838-844.
34. Jones EL, Douglas JS, Gruentzig AR, Craver JM, King SB, Guyton RA, Hatcher CR Jr. Percutaneous saphenous vein angioplasty to avoid reoperative bypass surgery. *Ann Thorac Surg* 1983;36:389-395.
35. Jones EL, Craver JM, Guyton RA, Bone DK, Hatcher CR Jr. Trends in the treatment of coronary artery disease today. Selective use of PTCA and bypass surgery. *Ann Surg* 1983;197:728-737.
36. Hatcher CR Jr, Craver JM, Jones EL, Bone DK, Guyton RA. Porcine bioprosthesis. A review of 1000 consecutive patients undergoing cardiac valve replacement. *Am Surg* 1983;49:6-10.
37. Douglas JS, Gruentzig AR, King SB III, Hollman J, Ischinger T, Meier B, Craver JM, Jones EL, Waller JL, Bone DK, Guyton RA. Percutaneous transluminal coronary angioplasty in patients with prior coronary bypass surgery. *J Am Coll Cardiol* 1983;2:745-754.
38. Jones EL, Craver JM, Michalik RE, Murphy DA, Guyton RA, Bone DK, Hatcher CR Jr, Reichwald NA. Combined carotid and coronary operations: when are they necessary? *J Thorac Cardiovasc Surg* 1984;87:7-16.
39. Guyton RA, Dorsey LM, Silberman MS, Hawkins HK, Williams WH, Hatcher CR Jr. The broadly based pericardial flap: a tissue for atrial wall replacement that grows. *J Thorac Cardiovasc Surg* 1984;87:619-625.
40. Williams WH, Zorn-Chelton S, Raviele AA, Michalik RE, Guyton RA, Dooley KJ, Hatcher CR Jr. Extracardiac atrial pedicle conduit repair of partial anomalous pulmonary venous connection to the superior vena cava in children. *Ann Thorac Surg* 1984;38:345-355.
41. Guyton RA, Dorsey LM, Kates RA, Hatcher CR Jr. Enhancement of cardioplegic protection with calcium entry blockers. *J Med Assc Ga* 1984;73:707-711.

42. Murphy DA, Craver JM, Jones EL, Curling PE, Guyton RA, King SB 3<sup>rd</sup>, Gruentzig AR and Hatcher CR Jr. Surgical management of acute myocardial ischemia following percutaneous transluminal coronary angioplasty. Role of the intra-aortic balloon pump. *J Thorac Cardiovasc Surg* 1984 Mar;87(3):332-9.
43. Guyton RA, Dorsey LM, Craver JM, Jones EL, Bone DK, Murphy DA, Hatcher CR Jr. Improved myocardial recovery after cardioplegic arrest with an oxygenated crystalloid solution. *J Thorac Cardiovasc Surg* 1985;89:877-887.
44. Millikan WJ Jr, Henderson JM, Sewell CS, Guyton RA, Potts JR III, Cranford CA Jr, Cramer AR, Galambos JT, Warren WD. Approach to the spectrum of Budd-Chiari syndrome: which patients require portal decompression. *Am J Surg* 1985;149:167-176.
45. Jones EL, Guyton RA, Michalik RE. Surgical treatment of combined carotid and coronary artery disease. In Difficult Problems in Adult Cardiac Surgery, Roberts AJ, ed. Chicago: Year Book Medical Publishing Inc., 117-125, 1985.
46. Craver JM, Jones EL, Guyton RA, Cobbs BW Jr, Hatcher CR Jr. Avoidance of transverse midventricular disruption following mitral valve replacement. *Ann Thorac Surg* 1985;40:163-171.
47. Cheung EH, Craver JM, Jones EL, Murphy DA, Guyton RA, Hatcher CR Jr. Mediastinitis after cardiac valvular operations: impact upon survival. *J Thorac Cardiovasc Surg* 1985;90:517-522.
48. Hurst JW, Whitworth HB, O'Donoghue S, Hersh T, Clements SD, Franch RH, Guyton RA, Hendee AE, McDonald D, Slade BA. Heart disease due to ovarian carcinoid: successful replacement of the pulmonary and tricuspid valves with porcine heterografts and removal of the tumor. In Clinical Essays on the Heart, Hurst JW, ed. New York: McGraw-Hill, Vol. 5, 177-196, 1985.
49. Guyton RA, Davis SC, Michalik RA, Williams WH, Hatcher CR Jr. Right heart assist by intermittent abdominal compression after congenital heart operations. *Circ* 1985; 72(Suppl II):II97-100.
50. Guyton RA, Williams WH, Hatcher CR Jr. Techniques of cardiopulmonary bypass". In The Heart: Arteries and Veins, Hurst JW, ed., 6th ed., New York: McGraw-Hill, 2025-2029, 1985.
51. Guyton RA, Hatcher CR Jr. Techniques of valvular surgery. In The Heart: Arteries and Veins, Hurst JW, ed., 6th ed., New York: McGraw-Hill, 2030-2036, 1985.
52. Guyton RA. Noncardioplegic myocardial preservation for coronary revascularization. *J Thorac Cardiovasc Surg* 1985 Jan;89(1):150-1.

53. Landolt CC, Anderson JE, Zorn-Chelton S, Guyton RA, Hatcher CR Jr, Williams WH. Importance of coronary artery anomalies in operations for congenital heart disease. *Ann Thorac Surg* 1986;41:351-355.
54. Landolt CC, Guyton RA. Lessons learned from randomized trials of coronary bypass surgery: viewpoint of the surgeon. *Cardiol* 1986;73:212-222.
55. McIntyre AB, Guyton RA, Jones EL, Craver JM, Williams WH, Hatcher CR Jr. Reoperation for prosthetic valve degeneration after Konno aortoventriculoplasty. *J Thorac Cardiovasc Surg* 1986;91:934-936.
56. Guyton RA, Michalik RE, McIntyre AB, Plauth WH Jr, Nugent EW, Hatcher CR Jr, Williams WH. Aortic atresia and aortico-left ventricular tunnel: successful surgical management by Konno aortoventriculoplasty in a neonate. *J Thorac Cardiovasc Surg* 1986;92:1099-1101.
57. Maffei VJ, Arcidi JM Jr, Langford DA, Dorsey LMA, Hatcher CR Jr, Guyton RA. Left ventricular assist device in the descending aorta: reduced risk of cerebral embolism. *Surg Forum* 1986;37:216-218.
58. Landolt CC, Anderson JE, Zorn-Chelton S, Guyton RA, Hatcher CR Jr and Williams WH. Importance of coronary artery anomalies in operations for congenital heart disease. *Ann Thorac Surg* 1986 Apr;41(4):351-5.
59. Guyton RA, Langford DA, Arcidi JM Jr, Morris DC, Liberman HA, Hatcher CR Jr. Intervention in acute myocardial infarction, the role of surgical management. In Acute Revascularization of the Infarcted Heart, Reves JG, ed., Orlando: Grune and Stratton, 1987;65-83.
60. Guyton RA, Chiavarelli M, Padgett CA, Cheung EH, Staton GW, Hatcher CR Jr. Influence of PEEP on intrapericardial pressure and cardiac function after coronary bypass surgery. *J Cardiothorac Anesth* 1987;1:98-107.
61. Jett GK, Arcidi JM Jr, Dorsey LMA, Hatcher CR Jr, Guyton RA. Vasoactive drug effects on blood flow in the internal mammary artery and saphenous vein grafts. *J Thorac Cardiovasc Surg* 1987;94:2-11.
62. Guyton RA, Maffei VJ, Arcidi JM Jr, Langford DA, Dorsey LMA, Hatcher CR Jr. A valveless counterpulsation left ventricular device in the descending thoracic aorta: hemodynamic benefit with a reduced risk of cerebral embolism. *Ann Thorac Surg* 1987;44:21-25.
63. Guyton RA, Arcidi JM Jr, Langford DA, Morris DC, Liberman HA, Hatcher CR Jr. Emergency coronary bypass for cardiogenic shock. *Circ* 1987;76(Suppl V):V22-27.

64. Guyton RA. Myocardial protection as an integral part of overall operative strategy: Preoperative preparation and planning for optimal results. In Cardiac Surgery: State of the Art Reviews, Chitwood WR Jr, ed., Philadelphia: Hanley & Belfus, Inc., 1988;279-289.
65. Arcidi JM Jr, Powelson SW, King SB, Douglas JS Jr, Jones EL, Craver JM, Landolt CC, Jackson ER, Hatcher CR Jr, Guyton RA. Trends in invasive treatment of single-vessel and double-vessel coronary disease. *J Thorac Cardiovasc Surg* 95:773-781, 1988.
66. Arcidi JM Jr, Hebel RF, Craver JM, Jones EL, Hatcher CR Jr, Guyton RA. Treatment of moderate mitral regurgitation and coronary disease by coronary bypass alone. *J Thorac Cardiovasc Surg* 95:951-959, 1988.
67. Stiegel RM, Beasley ME, Sink JD, Hester TR, Guyton RA, Perrella AM, Williams WH. Management of postoperative mediastinitis in infants and children by muscle flap rotation. *Ann Thorac Surg* 46:45-46, 1988.
68. Jett GK, Arcidi JM Jr, Hatcher CR Jr, Abel PW, Guyton RA. Vasodilator drug effects on the internal mammary artery. *J Am Coll Cardiol* 11:1317-1324, 1988.
69. Cheung EH, Arcidi JM Jr, Jackson ER, Hatcher CR Jr, Guyton RA. Intracavitary right heart cooling during coronary artery bypass surgery: A prospective randomized trial. *Circ* 78(Suppl III):III173-179, 1988.
70. Craver JM, Weintraub WS, Jones EL, Guyton RA, Hatcher CR Jr. Predictors of mortality, complications and length of stay in aortic valve replacement for aortic stenosis. *Circ* 78(Suppl III):III85-90, 1988.
71. Cheung EH, Arcidi JM Jr, Dorsey LMA, Vinten-Johansen J, Hatcher CR Jr, Guyton RA. Reperfusion of infarcting myocardium: Benefit of surgical reperfusion in a chronic model. *Ann Thorac Surg* 1989;48:331-338.
72. Weintraub WS, Jones EL, Craver J, Guyton R and Cohen C. Determinants of prolonged length of hospital stay after coronary bypass surgery. *Circ* 1989 Aug;80(2):276-84.
73. Weintraub WS, Jones EL, King SB III, Craver J, Douglas JS Jr, Guyton R, Liberman H, Morris D. Changing use of coronary angioplasty and coronary bypass surgery in the treatment of chronic coronary artery disease. *Am J Cardiol* 1990;65:183-188.
74. Jones EL, Weintraub WS, Craver JM, Guyton RA, Cohen CL, Corrigan VE, Hatcher CR Jr. Ten-year experience with the porcine bioprosthetic valve: interrelationship of valve survival and patient survival in 1,050 valve replacements. *Ann Thor Surg* 1990;49:370-384.

75. Weintraub WS, Cohen CI, Curling PE, Jones EL, Craver JM, Guyton RA, King SB, Douglas JS. Results of coronary surgery after failed elective coronary angioplasty in patients with prior coronary surgery. *J Am Coll Cardiol* 1990;16:1341-1347.
76. Talley JD, Weintraub WS, Roubin GS, Douglas JS, Anderson HV, Jones EL, Morris DC, et. al. Failed Elective Percutaneous Transluminal Coronary Angioplasty Requiring Coronary Artery Bypass Surgery. *Circ* 1990;82:1203-1213.
77. Zirbel GM, Letson ME, Kauffman JN, Walker CT and Guyton RA. Hematologic derangements of cardiopulmonary bypass: a comparison of two perfusion systems. *J Extra Corpor Technol.* 1990;22(1):15-9.
78. Gott JP, Pan-Chih, Dorsey LM, Cheung EH, Hatcher CR Jr and Guyton RA. Cardioplegia for transplantation: failure of extracellular solution compared with Stanford or UW Solution. *Ann Thorac Surg* 1990 Sep;50(3):348-54.
79. Bachiewicz PA, del Rio C, Goncalves MA, Lattouf OM, Guyton RA and Morris DC. Catastrophic thrombosis of porcine aortic bioprostheses. *Ann Thorac Surg* 1990 Nov;50(5):817-9.
80. Jones EL, Weintraub WS, Craver JM, Guyton RA, Cohen, CL. Coronary bypass surgery: Is the operation different today? *J Thorac Cardiovasc Surg* 1991;101:108-115.
81. Brown WM, Jay JL, Gott JP, Pan-Chih, Dorsey LMA, Churchwell A, Guyton RA. Placement of aortic valve bioprostheses in sheep via a left thoracotomy. *Trans Am Soc Artif Intern Organs* 1991;37:445.
82. Wampler RK, Frazier OH, Lansing AM, Smalling, RW, Nicklas JM, Phillips SJ, Guyton RA, Golding LAR. Treatment of cardiogenic shock with the hemopump left ventricular assist device. *Ann Thorac Surg* 1991;52:506-13.
83. Connolly MW, Guyton RA. Surgical Intervention in Coronary Heart Disease in Rehabilitation of the Coronary Patient. Wenger, NK, Hellerstein, HK., ed. Churchill Livingstone, New York. 1991.
84. Weintraub WS, Craver JM, Cohen CL, Jones EL, Guyton RA. Influence of Age on Results of Coronary Artery Surgery. *Circ, Supp III* 1991;84:226.
85. Weintraub WS, Clements SD, Ware J, Craver JM, Cohen CL, Jones EL, Guyton RA. Coronary Artery Surgery in Octogenarians. *Amer J Cardiol* 1991;68:1520.
86. Brown WM, Jay JL, Gott JP, Pan-Chih, Dorsey LMA, Churchwell A, Guyton RA. Placement of Aortic Valve Bioprostheses in Sheep Via a Left Thoracotomy: Implantation of Stentless Porcine Heterografts. *ASAIO Trans* 37(3): M445-6, Jul-Sep. 1991.

87. Baciewicz PA, Weintraub WS, Jones EL, Craver JM, Cohen CL, Tao X and Guyton RA. Late follow-up after repair of left ventricular aneurysm and (usually) associated coronary bypass grafting. *Am J Cardiol.* 1991 Jul 15;68(2):193-200.
88. Accola KD, Craver JM, Weintraub WS, Guyton RA and Jones EL. Multiple reoperative coronary artery bypass grafting. *Ann Thorac Surg* 1991 Oct;52(4):738-43.
89. Gott JP, Pan-Chih, Dorsey LMA, Jay, JL, Kett GK, Scheon FJ, Girardot J, Guyton RA. Calcification of Porcine Valves: A Successful New Method of Antimineralization. *Ann Thorac Surg* 1992;53:;207-16.
90. Kauffman JN, Walker T, Lattouf O, Letson B, Guyton RA. Reperfusion Modification with a Simplified Blood Cardioplegia System Compared with Oxygenated Crystalloid Cardioplegia. *J Extra-Corporeal Technology* 1992;23:26.
90. Gott JP, Brown WM, Pan-Chih, Dorsey LMA, Walker B, Guyton RA. Cardioplegia for Heart Transplantation: Unmodified UW Solution Compared With Stanford Solution. *J Heart Lung Transplant*, 1992;II(2):353-362.
91. Davtayan HG and Guyton RA. Rapid transfusion after aortic decannulation. *Ann Thorac Surg* 1992 Feb;53(2):351.
92. Craver JM, Weintraub WS, Jones EL, Guyton RA and Hatcher CR Jr. Emergency coronary artery bypass surgery for failed percutaneous coronary angioplasty. A 10-year experience. *Ann Surg* 1992 May;215(5):425-33.
93. Jett GK, Guyton RA, Hatcher CR Jr and Abel PW. Inhibition of human internal mammary artery contractions. An in vitro study of vasodilators. *J Thorac Cardiovasc Surg* 1992 Oct;104(4):977-82.
94. Brown WM, Jay John, Gott JP, Huang AH, Pan-Chih, Horsley WS, Dorsey LMA, Katzmark BS, Siegel RJ, Guyton RA. Warm Blood Cardioplegia: Superior Protection After Acute Myocardial Ischemia. *Ann Thorac Surg* 1993;55:32.
95. Weintraub WM, King SB, Jones EL, Douglas JS, Craver JM, Liberman HA, Morris DC, Guyton RA. Coronary Surgery and Coronary Angioplasty in Patients with Two-Vessel Coronary Artery Disease. *Amer J Card* 1993;71:511.
96. Accola KD, Jones EL, Craver JM, Weintraub WS, Guyton RA. Bilateral Mammary Artery Grafting: Avoidance of Complications with Extended Use. *Ann Thorac Surg* 1993;56:872.
90. Guyton RA. Oxygenated Crystalloid Cardioplegia. *Seminars Thorac Card Surg* 1993;5(2):114-121.

91. Guyton RA. Warm Blood Cardioplegia: Benefits and Risks. *Ann Thorac Surg* 1993;55:1071-2.
92. Guyton RA, Schonberger JP, Everts PA, Jett GK, Gray LA, et. al. Postcardiotomy Shock: Clinical Evaluation of the BVS 5000 Biventricular Support System. *Ann Thorac Surg* 1993;56:346-56.
93. Horsley WS, Whitlark JD, Hall JD, Gott JP, Pan-Chih, Huang AH, Park Y, Jones DP, Guyton RA: "Revascularization for Acute Myocardial Infarction: Superiority of Myocardial Protection with Warm Blood Cardioplegia". *Ann Thorac Surg* 1993;56:1228-38.
94. Weintraub WS, Wenger NK, Jones EL, Craver JM and Guyton RA. Changing clinical characteristics of coronary surgery patients. Differences between men and women. *Circ* 1993 Nov;88(5Pt2):II79-86.
95. Martin TD, Craver JM, Gott JP, Weintraub WS, Ramsay J, Mora CT, Guyton RA: "A Prospective Randomized Trial of Retrograde Warm Blood Cardioplegia: Myocardial Benefit and Neurologic Threat" *Ann Thorac Surg* 1994;57(2):298-304.
96. Huang AH, Sofola IO, Bufkin BL, Mellitt RJ, Guyton RA. Coronary sinus pressure and arterial venting do not affect retrograde cardioplegia distribution. *Ann Thorac Surg* 1994;58(5):1499-504.
97. Jones EL, Weintraub WS, Craver JM, Guyton RA, Shen Y.: "Interaction of Age and coronary Disease After Valve Replacement: Implications for Valve Selection" *Ann Thorac Surg* 1994;58:378-85.
98. Pan-Chih, Huang AH, Dorsey LMA, and Guyton RA. Hemodynamic Significance of the Coronary Vein Valves. *Ann Thorac Surg* 1994;57:424-431.
99. Bufkin BL, Mellitt RJ, Gott JP, Huang AH, Pan-chih, Guyton RA. Aerobic Blood Cardioplegia for Revascularization of Acute Infarct: Effects of Delivery Temperature. *Ann Thorac Surg* 1994;58:953-60.
100. Weintraub WS, Jones EL, Craver JM, Guyton RA. Frequency of repeat coronary bypass or coronary angioplasty after coronary artery bypass surgery using saphenous venous grafts. *Am J Cardiol.* 1994;73(2):103-12.
101. King SB 3rd, Lembo NJ, Weintraub WS, Kosinski, AS, Barnhart HX, Kutner MH, Alazraki NP, Guyton RA, Zhao XQ. A randomized trial comparing coronary angioplasty with coronary bypass surgery. Emory Angioplasty versus Surgery Trial (EAST). *N Engl J Med.* 1994;331(16):1044-50.
102. Mellitt RJ, Bufkin BL, Gott JP, Pan-Chih, Huang A, Guyton RA. Thoracic

- auxiliary ventricle as a counterpulsation device: hemodynamic improvement with a descending aortic valve. *Ann Thorac Surg.* 1994;58:953-60.
103. Craver JM, Bufkin BL, Weintraub WS, Guyton RA. Neurologic events after coronary bypass grafting: further observations with warm cardioplegia. *Ann Thorac Surg.* 1995;59(6):1429-33.
  104. Weintraub WS, Jones EL, Craver JM, Grosswald R, Guyton, RA. In-hospital and long-term outcome after reoperative coronary artery bypass graft surgery. *Circ* 1995;92(9 Suppl):II50-7.
  105. Guyton RA, Mellitt RJ, and Weintraub WS. A Critical Assessment of Neurological Risk During Warm Heart Surgery. *Card Surg* 1995;10(4):488-492.
  106. Current Status of the Cryopreserved Aortic Homograft, Robert A. Guyton, MD, CURRENT SURGERY, Volume 51 No. 3, March/April 1994, pps. 179-181.
  107. Guyton RA, The Myocardium: Physiology and Protection During Cardiac Surgery and Cardiopulmonary Bypass. In: Mora CT, ed. *Cardiopulmonary Bypass Principles and Techniques of Extracorporeal Circulation*, New York: Springer-Verlag, 1995:21-39.
  108. Bufkin BL, Guyton RA, Ventricular Assist Devices. In: Mora CT, ed. *Cardiopulmonary Bypass Principles and Techniques of Extracorporeal Circulation*, New York: Springer-Verlag, 1995:399-412.
  109. Guyton RA, Warm-Blood Cardioplegia and Normothermic Cardiopulmonary Bypass. In: Mora CT, ed. *Cardiopulmonary Bypass Principles and Techniques of Extracorporeal Circulation*, New York: Springer-Verlag, 1995:484-492.
  110. Guyton RA. Aggressive Intervention in Acute Myocardial Infarction: A Surgeon's Prospective. *Sem Thorac Cardiovasc Surg* 1995;7(4):174-175.
  111. Brown WM, Horsley WS, Gott JP, Bufkin BL, and Guyton RA. Myocardial Protection for Coronary Artery Bypass in Patients With Acute Myocardial Infarction: Resuscitation of Ischemic Myocardium. *Sem Thorac Cardiovasc Surg* 1995;7(4):191-197.
  112. Craver JM, Justicz A, Weintraub WS, Shen Y, Guyton RA, Gott JP, Jones EL. Coronary artery bypass grafting in patients after failure of intracoronary stenting. *Ann Thorac Surg* 1995; 60(1):60-5.
  113. Murphy CO, Pan-Chih, Gott JP, Guyton RA. Microvascular reactivity after crystalloid, cold blood, and warm blood cardioplegic arrest. *Ann Thorac Surg* 1995; 60(4):1021-7.

114. Craver JM, Hodakowski GT, Shen Y, Weintraub WS, Accola KD, Guyton RA, Jones EL. Third-time coronary artery bypass operations: surgical strategy and results. *Ann Thorac Surg* 1996;62(6):1801-7.
115. Chandra M, Pettigrew RI, Eley JW, Oshinski JN, Guyton RA. Cine-MRI-aided endomyocardectomy in idiopathic hypereosinophilic syndrome. *Ann Thorac Surg*. 1996; 62(6):1856-8.
116. Mora CT, Henson MB, Weintraub WS, Murkin JM, Martin TD, Craver JM, Gott JP, Guyton RA. The effect of temperature management during cardiopulmonary bypass on neurologic and neuropsychologic outcomes in patients undergoing coronary revascularization. *J Thorac Cardiovasc Surg*. 1996;112(2):514-22.
117. Guyton RA, Gott JP, Brown WM, Craver JM. Cold and warm myocardial protection techniques. *Advances in Cardiac Surgery* 1996; 7:1-23.
118. Guyton RA, Gott JP. Critical evaluation of warm blood cardioplegia. In *Warm Heart Surgery*, Salerno, editor. Edward Arnold (publisher) Ltd., 1996.
119. Schmidt FE, MacDonald MJ, Murphy CO, Brown WM, Gott JP and Guyton RA. Leukocyte Depletion of Blood Cardioplegia Attenuates Reperfusion Injury. *Ann Thorac Surg* 1996;62:1691-7.
120. Hodakowski GT, Craver JM, Jones EL, King SP, Guyton RA. Clinical Significance of Perioperative Q Wave Myocardial Infarction in Emory Angioplasty Versus Surgery Trial (EAST). In Press, AATS, April 1996/*J Thor Cardiovasc Surg*, 1996; 112(6):144-53.
121. Craver JM, Hodakowski GT, Shen Y, Weintraub WS, Accola KD, Guyton, RA, Jones EL. Third time coronary artery bypass operations: surgical strategy and results. *Ann Thor Surg.*, 1996; 62(6):1801-7.
122. Weintraub WS, Jones EL, Morris DC, King SB III, Guyton RA, Craver JM. Outcome of reoperative coronary bypass surgery versus coronary angioplasty after previous bypass surgery. *Circ* 1997;95(4):868-77.
123. Weintraub WS, Kosinski A, Ghazzal ZMB, Jones EL, Morris D, Guyton R, Craver J, King III SB. Outcome of coronary bypass surgery versus coronary angioplasty in diabetics with multivessel coronary artery disease. Submitted for publication, December 1996.
124. Murphy CO, Pan-Chih, Gott JP and Guyton RA. Coronary Microvascular Reactivity After Ischemic Cold Storage and Reperfusion. *Ann Thorac Surg* 1997;63:20-7.

125. Gott JP, Girardot MN, Girardot JM, Hall JD, Whitlark JD, Horsley WS, Dorsey LM, Levy RJ, Chen W, Schoen FJ, Guyton RA. Refinement of the alpha aminooleic acid bioprosthetic valve anticalcification technique. *Ann Thorac Surg* 1997;64(1):50-8.
126. King SB 3rd, Barnhart HX, Kosinski AS, Weintraub WS, Lembo NJ, Petersen JY, Douglas JS Jr., Jones EL, Craver JM, Guyton RA, Morris DC, Liberman HA. Angioplasty or surgery for multivessel coronary artery disease: comparison of eligible registry and randomized patients in the EAST trial and influence of treatment selection on outcomes. Emory Angioplasty versus Surgery Trial Investigators. *Am J Cardiol* 1997;79(11):1453-9.
127. Warner CD, Weintraub WS, Craver JM, Jones EL, Gott JP, Guyton RA. Effect of cardiac surgery patient characteristics on patient outcomes 1981 through 1995. *Circ* 1997; 96(5):1575-9.
128. Guyton RA. A Synopsis of Cardiac Physiology. In: Edmunds, LH, ed. *Cardiac Surgery in the Adult*, New York: McGraw-Hill, 1997:59-83.
129. Gott JP, Girardot NM, Girardot JM, Guyton RA. Preclinical Evaluation of Improved Treatment with Alpha Aminooleic Acid Confirming Antimineralization Efficacy and Preservation of Tissue Integrity. In: Gabbay S, Wheatley DJ, eds. *Advances in Anticalcific and Antidegenerative Treatment of Heart Valve Bioprostheses*, Austin: Silent Partners, Inc., 1997: 157-165.
130. Duarte IG, Murphy CO, Kosinski AS, Jones EL, Craver JM, Gott JP and Guyton RA. Late survival after valve operation in patients with left ventricular dysfunction. *Ann Thorac Surg* 1997 Oct;64(4):1089-95.
131. Duarte I, Shearer ST, MacDonald MJ, Gott JP, Brown WM, Vinten-Johansen J, Guyton, RA. Myocardial distribution of antegrade cold crystalloid and tepid blood cardioplegia at varying infusion pressures. *Ann of Thorac Surg* 1998;65(6):1610-1616.
132. Nakamura M, Toombs CF, Duarte IG, Ronson RS, Guyton, RA, et. al. Recombinant Human Megakaryocyte Growth and Development Factor Attenuates Postbypass Thrombocytopenia. *Ann of Thorac Surg*. 1998;66:1216-23.
133. Bufkin BL, Puskas JD, Vinten-Johansen J, Shearer ST, Guyton RA. Controlled Intermittent Asystole: Pharmacologic Potentiation of Vagal-Induced Asystole. *Ann of Thorac Surg*. 1998;66:1185-90.
134. Gott JP, Cooper WA, Schmidt FE, Guyton RA, et. al. Modifying Risk for Extracorporeal Circulation: Trial of Four Antiinflammatory Strategies. *Ann Thorac Surg*. 1998;66:747-54.

135. Thourani VH, Ronson RS, Jordan JE, Ahao Z-Q, Nakamura M, Guyton RA. Pretreatment with a Specific Adenosine A<sub>3</sub> Receptor Agonist Before Cardioplegia Arrest Improves Postischemic Function of Jeopardized Myocardium. *Surg Forum*, 1998; 49:207-209.
136. Bufkin BL, Shearer ST, Vinten-Johansen J, Guyton RA, et. al. Preconditioning During Simulated MIDCABG Attenuates Blood Flow Defects and Neutrophil Accumulation. *Ann Thorac Surg*. 1998;66:726-32.
137. Thourani VH, Nakamura M, Duarte IG, Bufkin BL, Zhao Z-Q, Jordan JE, Shearer ST, Guyton RA, Vinten-Johansen J. Ischemic preconditioning attenuates postischemic coronary artery endothelial dysfunction in a model of minimally invasive direct coronary artery bypass. *J Thorac Cardiovasc Surg* 1999;117:383-389.
138. Thourani VH, Weintraub WS, Jones EL, Craver JM, Gott JP, Brown WM, Guyton RA. Short and Long-term Follow-up in 771 Patients Undergoing Reoperative Heart Valve Surgery. *Journal of the American College of Cardiology* 33(2,suppl A):1078-1177.
139. Duarte I, MacDonald M, Cooper WA, Schmarkey LS, Gott JP, Brown WM, Vinten-Johansen J, Guyton RA: Myocardial distribution of antegrade cold crystalloid and tepid blood cardioplegia at varying infusion pressures. *Ann Thorac Surg* 1998;65:1610-16.
140. Weintraub WS, Stein B, Kosinski A, Douglas JS Jr, Ghazzal ZM, Jones EL, Morris DC, Guyton RA, Craver JM and King SB 3<sup>rd</sup>. Outcome of coronary bypass surgery versus coronary angioplasty in diabetic patients with multivessel coronary artery disease. *J Am Coll Cardiol*. 1998 Jan;31(1):10-9.
141. Weintraub WS, Craver JM, Jones EL and Gott JP, Deaton C, Culler SD and Guyton RA. Improving cost and outcome of coronary surgery. *Circ* 1998 Nov 10;98(19Suppl):II23-8.
142. Trachiotis GD, Weintraub WS, Johnston TS, Jones EL, Guyton RA and Craver JM. Coronary artery bypass grafting in patients with advanced left ventricular dysfunction. *Ann Thorac Surg* 1998 Nov;66 (5):1632-9.
143. Gott JP and Guyton RA. Refined alpha aminooleic acid and experimental calcification in bioprostheses. *Ann Thorac Surg* 1998 Nov;66(5):1871.
144. Puskas JD, Wright CE, Ronson RS, Brown WM, Gott JP, Guyton RA: Off-pump multivessel coronary bypass via sternotomy is safe and effective. *Ann Thorac Surg* 1998;66:1068-72.
145. Craver JM, Puskas JD, Weintraub WW, Shen Y, Guyton RA, Gott JP, Jones EL.

- 601 Octogenarians undergoing cardiac surgery: outcome and comparison with younger age groups. *Ann Thorac Surg* 1999;67(4):1104-1110.
146. Duarte IG, Shen Y, MacDonald MJ, Jones EL, Craver JM and Guyton RA. Treatment of moderate mitral regurgitation and coronary disease by coronary bypass alone: late results. *Ann Thorac Surg* 1999;68(2):426-30.
147. Thourani VH, Weintraub WS, Stein B, Gebhart SS, Craver JM, Jones EL and Guyton RA. Influence of diabetes mellitus on early and late outcome after coronary artery bypass grafting. *Ann Thorac Surg* 1999 Apr;67(4):145-52.
148. Wang NP, Bufkin BL, Nakamura M, Zhao ZQ, Wilcox JN, Hewan-Lowe KO, Guyton RA and Vinten-Johansen J. Ischemic preconditioning reduces neutrophil accumulation and myocardial apoptosis. *Ann Thorac Surg* 1999 Jun;67(6):1689-95.
149. Thourani VH, Ronson RS, Jordan JE, Guyton RA and Vinten-Johansen J. Adenosine A<sub>3</sub> pretreatment before cardioplegic arrest attenuates postischemic cardiac dysfunction. *Ann Thorac Surg* 1999 Jun;67(6):1732-7.
150. Thourani VH, Nakamura M, Ronson RS, Jordan JE, Zhao ZQ, Levy JH, Szlam F, Guyton RA, Vinten-Johansen J. Adenosine A<sub>3</sub>-receptor stimulation attenuates postischemic dysfunction through K(ATP) channels. *Am J Physiol* 1999 Jul;277(1Pt2):H228-35.
151. Vinten-Johansen J, Zhao ZQ, Nakamura M, Jordan JE, Ronson RS, Thourani VH and Guyton RA. Nitric oxide and the vascular endothelium in myocardial ischemia-reperfusion injury. *Ann NY Acad Sci* 1999 Jun 30;874:354-70.
152. Gott JP, Thourani VH, Wright CE, Brown WM 3<sup>rd</sup>, Adams AB, Skardasis GM, McKinnon WM, Battey PM and Guyton RA. Risk neutralization in cardiac operations: detection and treatment of associated carotid disease. *Ann Thorac Surg* 1999 Sep;68(3):850-6.
153. Eagle KA, Guyton RA, Davidoff R, Ewy GA, Fonger J, Gardner TJ, and Gott JP, et. al. ACC/AHA Guidelines for Coronary Artery Bypass Graft Surgery: A Report of the American College of Cardiology/American Heart Association Task Force on Practice Guidelines (Committee to Revise the 1991 Guidelines for Coronary Artery Bypass Graft Surgery). American College of Cardiology/American Heart Association. *J Am Coll Cardiol* 1999 Oct;34(4):1262-347.
154. Puskas JD, Wright CE, Miller PK, Anderson TE, Gott JP, Brown WM 3<sup>rd</sup> and Guyton RA. A randomized trial of endoscopic versus open saphenous vein harvest in coronary bypass surgery. *Ann Thorac Surg* 1999 Oct;68(4):1509-12.
155. Thourani VH, Ronson RS, Van Wylen DG, Shearer ST, Katzmark SL, Zhao ZQ, Han DC, Guyton RA and Vinten-Johansen J. Adenosine-supplemented blood cardioplegia

- attenuates postischemic dysfunction after severe regional ischemia. *Circ* 1999 Nov 9;100(19Suppl):II376-83.
156. Ronson RS, Thourani VH, Ma XL, Katzmark SL, Han D, Zhao ZQ, Nakamura M, Guyton RA and Vinten-Johansen J. Peroxynitrite, the breakdown product of nitric oxide, is beneficial in blood cardioplegia but injurious in crystalloid cardioplegia. *Circ* 1999 Nov 9;100(19Suppl):II384-91.
  157. Vinten-Johansen J, Thourani VH, Ronson RS, Jordan JE, Zhao ZQ, Nakamura M, Velez D and Guyton RA. Broad-spectrum cardioprotection with adenosine. *Ann Thorac Surg* 1999 Nov;68(5):1942-8.
  158. Zhao ZQ, Nakamura M, Wang NP, Wilcox JN, Shearer S, Guyton RA and Vinten-Johansen J. Administration of adenosine during reperfusion reduces injury of vascular endothelium and death of myocytes. *Coron Artery Dis* 1999 Dec;10(8):617-28.
  159. Cooper WA, Duarte IG, Thourani VH, et. al.: Hypothermic Circulatory Arrest Causes Multisystem Vascular Endothelial Dysfunction and Apoptosis. *Ann Thorac Surg* 2000;69:697-703.
  160. King SB, Kosinski AS, Guyton RA, et. al. Eight-Year Mortality in the Emory Angioplasty Versus Surgery Trial (EAST). *JACC* 2000;35 (5):1116-21.
  161. Puskas JD, Winston AD, Wright CE, et. al. Stroke After Coronary Artery Operation: Incidence, Correlates, Outcome, and Cost. *Ann Thorac Surg* 2000;69(4):1503-6.
  162. Agirbasli M, Weintraub WS, Chang GL, King SB, Guyton RA. Outcome of Coronary Revascularization in Patients on Renal Dialysis. *Amer J Card* 2000;86(4):395-399.
  163. Thourani VH, Weintraub WS, Craver JM, Jones EL, Mahoney EM, and Guyton RA. Ten-Year Trends in Heart Valve Replacement Operations. *Ann Thorac Surg* 2000;70(2):448-55.
  164. Zhao, Z-Q, Clark KL, Wang N-P, Velez D, Guyton RA, Vinten-Johansen J. Comparison of AMP579 and adenosine in inhibition of cell-cell interaction between neutrophil and vascular endothelial cell. *Drug Develop Res* 2000;49:266-273.
  165. Budde JM, Velez DA, Zhao Z-Q, Clark KL, Morris CD, Satoshi Muraki, Guyton RA, Vinten-Johansen J. Comparative study of AMP579 and adenosine in inhibition of neutrophil-mediated vascular and myocardial injury during 24 hours of reperfusion. *Cardiovascular Res* 2000;47(2):294-305.
  166. Nakamura M, Thourani VH, Ronson RS, Velez DA, MA X-L, Katzmark S, Robinson J, Schmarkey LS, Zhao Z-Q, Wang N-P, Guyton RA, Vinten-Johansen J. Glutathione reverses endothelial damage from peroxynitrite, the by-

- product of nitric oxide degradation, in crystalloid cardioplegia. *Circulation* 2000, 102:332-338
167. Zhao Z-Q, Nakamura M, Wang N-P, Velez DA, Wilcox JN, Hewan-Lowe KO, Guyton RA, Vinten-Johansen J. Dynamic progression of contractile and Endothelial Dysfunction and infarct extension in the late phase of reperfusion. *J Surgical Res* 2000;94:133 –144.
  168. Muraki S, Morris CD, Budde J, Velez DA, Zhao Z-Q, Guyton RA, Vinten-Johansen J. Myocardial protection for OPCAB: Intracoronary delivery of adenosine by computerized pump attenuates reperfusion injury in target myocardium. *Circulation (Suppl.)* 2000;102(18):3998.
  169. Thourani VH, Weintraub WS, Craver JM, Jones EL, Gott JP, Brown WM, Puskas JD, Guyton RA. Influence of concomitant CABG and urgent/emergent status on mitral valve replacement surgery. *Ann Thorac Surg* 2000;70(3):778-38.
  170. Nakamura M, Zhao ZQ, Clark KL, Velez DV, Guyton RA, Vinten-Johansen J. A novel adenosine analog, AMP579, inhibits neutrophils activation, adherence and neutrophils-mediated injury to coronary vascular endothelium. *Euro J Pharm* 2000;397(1):197-205.
  171. Nakamur M, Wang NP, Zhao ZQ, Wilcox JN, Thourani V, Guyton RA, Vinten-Johansen J. Preconditioning decreases Bax expression, PMN accumulation and apoptosis in reperfused rat heart. *Cardiovascular Research* 2000;45(3):661-70.
  172. Zhao ZQ, Nakamura M, Wang NP, Wilcox JN, Shearer S, Ronson RS, Guyton RA, Vinten-Johansen. Reperfusion induces myocardial apoptotic cell death. *Cardiovascular Research* 2000;45(3):651-60.
  173. Guyton RA, Thourani VH, Puskas JD, Shanewise JS, Steele MA, Palmer-Steele CL and Vinten-Johansen J. Perfusion-assisted direct coronary artery bypass: selective graft perfusion in off-pump cases. *Ann Thorac Surg* 2000 Jan;69(1):171-5.
  174. Zhao ZQ, Budde, JM, Morris C, Wang NP, Velez DA, Muraki S, Guyton RA, and Vinten-Johansen J. Adenosine Attenuates Reperfusion-induced Apoptotic Cell Death by Modulating Expression of Bcl-2 and Bax Proteins. *J Mol Cell Cardiol* 2001;33:57-68.
  175. Zhao Z-Q, Nakamura M, Wang N-P, Velez DA, Guyton RA, Vinten-Johansen J. Adenosine during reperfusion inhibits myocardial apoptosis by altering expression of Bcl-2, Bax and p53. *JMCC* 2001;33:57-68.
  176. Muraki S, Morris CD, Budde JM, Velez DA, Zhao Z-Q, Guyton RA, Vinten-Johansen J. Experimental off-pump coronary artery revascularization with adenosine enhanced reperfusion. *J Thorac and Card Surg*, 2001;131(3):570-579.

177. Zhao Z-Q, Nakamura M, Wang N-P, Velez DA, Wilcox JN, Hewan-Lowe KO, Guyton RA, Vinten-Johansen J. Progressively developed myocardial apoptotic cell death during late phase of reperfusion. *J Apoptosis* 2001; 6:277-288.
178. Bezanson JL, Deaton C, Craver J, Jones E, Guyton RA, and Weintraub WS. 2001, Predictors and Outcomes Associated With Early Extubation in Older Adults Undergoing Coronary Artery Bypass Surgery 2001;10(6), 383-390.
179. Duarte IG, MacDonald MJ, Cooper WA, Schmarkey SL, Gott JP, Brown WM 3<sup>rd</sup>, Vinten-Johansen J and Guyton RA. In vivo hemodynamic, histologic and antiminerization characteristics of the Mosaic bioprosthesis. *Ann Thorac Surg* 2001 Jan;71(1):92-9.
180. Puskas JD, Wright CE, Ronson RS, Brown WM 3<sup>rd</sup>, Gott JP and Guyton RA. Clinical outcomes and angiographic patency in 125 consecutive off-pump coronary bypass patients.
181. Puskas JD, Vinten-Johansen J, Muraki S and Guyton RA. Myocardial protection for off-pump coronary artery bypass surgery. *Semin Thorac Cardiovasc Surg* 2001 Jan;13(1):82-8.
182. Puskas JD, Thourani VH, Marshall JJ, Dempsey SJ, Steiner MA, Sammons BH, Brown WM 3<sup>rd</sup>, Gott JP, Weintraub WS and Guyton RA. Clinical outcomes, angiographic patency, and resource utilization in 200 consecutive off-pump coronary bypass patients. *Ann Thorac Surg* 2001 May;71(5):1477-83.
183. Puskas JD, Thourani VH, Vinten-Johansen J and Guyton RA. Active perfusion of coronary grafts facilitates complex off-pump coronary artery bypass surgery. *Heart Surg Forum* 2001;4(1):65-8.
184. Morris CD, Budde JM, Velez DA, Muraki S, Zhao ZQ, Puskas JD, Guyton RA and Vinten-Johansen J. Electroplegia: an alternative to blood cardioplegia for arresting the heart during conventional (on-pump) cardiac operation. *Ann Thorac Surg* 2001 Sep;72(3):679-87.
185. Velez DA, Morris CD, Budde JM, Muraki S, Otto RN, Guyton RA and Vinten-Johansen J. All-blood (miniplegia) versus dilute cardioplegia in experimental surgical revascularization of evolving infarction. *Circ* 2001 Sep 18;104(12Suppl1):I296-302.
186. Muraki S, Morris CD, Budde JM, Otto RN, Zhao ZQ, Puskas JD, Guyton RA and Vinten-Johansen J. Preserved myocardial blood flow and oxygen supply-demand balance with active coronary perfusion during simulated off-pump coronary artery bypass grafting. *J Thorac Cardiovasc Surg* 2002 Jan;123(1):53-62.

187. Velez DA, Morris CD, Muraki S, Budde JM, Otto RN, Zhao ZQ, Guyton RA and Vinten-Johansen J. Brief pretreatment of radial artery conduits with phenoxybenzamine prevents vasoconstriction long term. *Ann Thorac Surg* 2001 Dec;72(6):1977-84.
183. Brinkman WT, Williams WH, Guyton RA, Jones EL and Craver JM. Valve replacement in patients on chronic renal dialysis: implications for valve prosthesis selection. *Ann Thorac Surg* 2002 Jul;74(1):37-42.
184. Cole JH, Jones EL, Craver JM, Guyton RA, Morris DC, Douglas JS, Ghazzal Z and Weintraub WS. Outcomes of repeat revascularization in diabetic patients with prior coronary surgery. *J Am Coll Cardiol* 2002 Dec 4;40(11):1968-75.
185. DeLaRosa J, Sharoni E, and Guyton RA. Pregnancy and valvular heart disease. *Heart Surg Forum* 2002;6(1):E7-9.
186. Weintraub WS, Clements SD Jr, Crisco LV, Guyton RA, Craver JM, Jones EL and Hatcher CR Jr. Twenty-year survival after coronary artery surgery: an institutional perspective from Emory University. *Circ* 2003 Mar 11;107(9):1271-7.
187. Cooper WA, Corvera JS, Thourani VH, Puskas JD, Craver JM, Lattouf OM and Guyton RA. Perfusion-assisted direct coronary artery bypass provides early reperfusion of ischemic myocardium and facilitates complete revascularization. *Ann Thorac Surg* 2003 Apr;75(4):1132-9.
188. Puskas JD, Williams WH, Duke PG, Staples JR, Glas KE, Marshall JJ, Leimbach M, Huber P, Garas S, Sammons BH, McCall SA, Petersen RJ, Bailey DE, Chu H, Mahoney EM, Weintraub WS and Guyton RA. Off-pump coronary artery bypass grafting provides complete revascularization with reduced myocardial injury, transfusion requirements, and length of stay: a prospective randomized comparison of two hundred unselected patients undergoing off-pump versus conventional coronary artery bypass grafting. *J Thorac Cardiovasc Surg* 2003 Apr;125(4):797-808.
189. Ronson RS, Puskas JD, Thourani VH, Velez DA, Bufkin BL, Glass J, Guyton RA and Vinten-Johansen J. Controlled intermittent asystole cardiac therapy induced by pharmacologically potentiated vagus nerve stimulation in normal and hibernating myocardium. *Ann Thorac Surg* 2003 Jun;75(6):1929-36.
190. Muraki S, Morris CD, Budde JM, Zhao Z, Guyton RA, Vinten-Johansen J. Blood cardioplegia supplementation with the sodium-hydrogen ion exchange inhibitor cariporide to attenuate infarct size and coronary artery endothelial dysfunction after severe regional ischemia in a canine model. *J Thorac and Card Surg*, 2003;125, 155-164.
191. Vinten-Johansen J, Zhao Z, Corvera JS, Morris CD, Budde JM, Thourani VH, Guyton RA. Adenosine in Myocardial Protection in On-Pump and Off-Pump

- Cardiac Surgery. *Ann Thorac Surg* 2003;75:S691-9.
192. Zhao Z, Morris CD, Budde JM, Wang N, Muraki S, Sun H and Guyton RA. Inhibition of myocardial apoptosis reduces infarct size and improves regional contractile dysfunction during reperfusion. *Cardiovascular Research* 2003;59:132-142.
  193. Thourani VH, Weintraub WS, Guyton RA, Jones EL, Williams WH, Elkabbani S and Craver JM. Outcomes and long-term survival for patients undergoing mitral valve repair versus replacement: effect of age and concomitant coronary artery bypass grafting. *Circ* 2003 Jul; 22:108(3):298-304.
  194. Zhao Z, Corvera JS, Halkos ME, Kerendi F, Wang NP, Guyton RA and Vinten-Johansen J. Inhibition of myocardial injury by ischemic postconditioning during reperfusion: comparison with ischemic preconditioning. *Am J Physiol Heart Circ Physiol* 2003 Aug;285(2):H579-588.
  195. Cooper WA, Brinkman W, Petersen RJ, and Guyton RA. Impact of renal disease in cardiovascular surgery: emphasis on the African-American patient. *Ann Thorac Surg* 2003 Oct;76(4):S1370-6.
  196. Corvera JS, Zhao ZQ, Schmarkey LS, Katzmark SL, Budde JM, Morris CD, Ehring T, Guyton RA, and Vinten-Johansen J. Optimal dose and mode of delivery of Na<sup>+</sup>/H<sup>+</sup> exchange-1 inhibitor are critical for reducing postsurgical ischemia-reperfusion injury. *Ann Thorac Surg* 2003 Nov;76(5):1614-22.
  197. Song HK, Petersen RJ, Sharoni E, Guyton RA and Puskas, JD. Safe evolution towards routine off-pump coronary artery bypass: negotiating the learning curve. *Eur J Cardiothorac Surg*. 2003 Dec;24(6):947-52.
  198. Corvera JS, Morris CD, Budde JM, Velez DA, Puskas JD, Lattouf OM, Cooper WA, Guyton RA and Vinten-Johansen J. Pretreatment with phenoxybenzamine attenuates the radial artery's vasoconstrictor response to alpha-adrenergic stimuli. *J Thorac Cardiovasc Surg* 2003 Nov;126(5):1549-54.
  199. Puskas JD, Sharoni E, Williams WH, Petersen R, Duke P and Guyton RA. Is routine use of temporary epicardial pacing wires necessary after either OPCAB or conventional CABG/CPB? *Heart Surg Forum* 2003;6(6):E103-6.
  200. Zhao Z-Q, Sun H-Y, Wang N-P, Kerendi F, Guyton RA, Vinten-Johansen J. Conditioning Reduces Cardiomyocyte Loss by Inhibiting Reactive Oxygen Species-Triggered Mitochondrial Calcium Overload. *Circulation(Suppl IV)* 108(17): IV-174, 2003.
  201. Vinten-Johansen J, Kin H, Sun H-Y, Wang N-P, Halkos ME, Guyton RA, Zhao Z-Q.

- Post-conditioning Reduces Myocardial Injury by Inhibiting Reactive Oxygen Species during Reperfusion. *Circulation (Suppl IV)* 108(17): IV-219, 2003.
202. Budde JM, Morris CD, Velez DA, Muraki S, Wang NP, Guyton RA, and Zhao ZQ. Reduction of infarct size and preservation of endothelial function by multidose intravenous adenosine during extended reperfusion. *J Surg Res.* 2004 Jan;116(1):104-15.
203. Glas KE, Shanewise JS and Guyton RA. An Unusual Cause of Left Ventricular Outflow Tract Obstruction After Mitral Valve Repair. *Anesth Analg* 2004;99:38-40.
204. Kerendi F, Halkos ME, Corvera JS, Kin H, Zhao Z, Mosunjac M, Guyton RA and Vinten-Johansen J. Inhibition of myosin light chain kinase provides prolonged attenuation of radial artery vasospasm. *Euro J Cardiothorac Surg* 2004;26:1149-1155.
205. Budde JM, Morris CD, Velez DA, Muraki S, Wang N-P, Guyton RA, Zhao Z-Q. “Reduction of infarct size and preservation of endothelial function by multidose intravenous adenosine during extended reperfusion.” *J Surgical Research* 116, 104-115 (2004).
206. Kin H, Zhao Z-Q, Sun H-Y, Wang N-P, Corvera JS, Halkos ME, Kerendi F, Guyton RA, Vinten-Johansen J. “Postconditioning attenuates myocardial ischemia-reperfusion injury by inhibiting events in the early minutes of reperfusion.” *CVR* 62(2004) 74-85.
207. Sun H-Y, Wang N-P, Halkos ME, Kerendi F, Kin H, Wang R-X, Guyton RA, Zhao Z-Q. “Involvement of Na<sup>+</sup>/H<sup>+</sup> exchanger in hypoxia/re-oxygenation-induced neonatal rat cardiomyocyte apoptosis.” *European J Pharmacology* 486 (2004) 121-131.
208. Kin H, Zhao Z-Q, Sun H-Y, Wang N-P, Corvera JS, Halkos ME, Kerendi F, Guyton RA, Vinten-Johansen J. Postconditioning attenuates myocardial ischemia-reperfusion injury by inhibiting events in the early minutes of reperfusion. *Cardiovascular Research* 62 (2004) 74-85.
209. Halkos ME, Kerendi F, Corvera JS, Wang, N-P, Kin H, Payne CS, Sun H-Y, Guyton RA, Vinten-Johansen J, Zhao Z-Q. Myocardial protection with postconditioning is not enhanced by ischemic preconditioning. *Ann Thorac Surg* 2004;78:961-9.
210. Jiang R, Wang N-P, Kerendi F, Halkos ME, Kin H, Zhao Z-Q, Wilcox JN, Levy JH, Guyton RA, Vinten-Johansen. Factor Xa Amplifies Tissue Factor Expression in Endothelial Cells by MAPK- and NF-kB-dependent but not P13 Kinase-Dependent Pathways. *Circulation (Suppl III)*, 110(17): III-168 (805) 2004.
211. Jobe LJ, Jiang R, Wang N-P, Corvera JS, Kin H, Kerendi F, Halkos ME, Wilcox JN, Levy JH, Guyton RA, Vinten-Johansen J. Tissue Factor, Factors VIIa and Xa Expression and Local Generation of Thrombin in at Risk Myocardium Occurs Specifically During Reperfusion. *Circulation Suppl III* 110 (17):III-297 (1423) 2004.

212. Kerendi F, Halkos ME, Corvera JS, Kin H, Wang N-P, Mosunjac M, Zhao Z-Q, Guyton RA, Vinten-Johansen J. Irreversible Inhibition of Myosin Light Chain Kinase Provides Prolonged Attenuation of Radial Artery Vasospasm. *Circulation Suppl III* 110(17):III-357 (1706) 2004.
213. Sun HY, Wang N-P, Kerendi F, Halkos M, Kin H, Guyton RA, Vinten-Johansen J, Zhao Z-Q. Hypoxic postconditioning reduces cardiomyocyte loss by inhibiting the generation of ROS and intracellular  $Ca^{2+}$ . *Am J Physiol (Heart Circ Physiol)* 288: H1900-H1908, 2005.
214. Zhao Z-Q, Sun H-Y, Wang N-P, Kin H, Guyton RA, Vinten-Johansen. Hypoxic Postconditioning Attenuates Cardiomyocyte Apoptosis via inhibition of JNK and p38 Kinases pathway. *J Molecular & Cellular Cardiol* 38:870, 2005.
215. Mykytenko J, Reeves J, Kin H, Zatta AJ, Jiang R, Guyton RA, Vinten-Johansen J, Zhao Z-Q. Post conditioning reduces infarct size via Mitochondrial  $K_{ATP}$  Channel Activation During 24 Hours of Reperfusion. *J Molecular & Cellular Cardiol* 38:830, 2005.
216. Kin H, Wang N-P, Halkos ME, Kerendi F, Guyton RA, Vinten-Johansen J, Zhao Z-Q. Neutrophil Depletion and Oxidant Inhibition Reduce Myocardial Apoptosis by Inhibiting Activation of Caspase-3 and Up-Regulating Bcl-2 Expression. *J Molecular & Cellular Cardiol* 38:827, 2005.
217. Kin H, Zatta AJ, Jiang R, Reeves JG, Mykytenko J, Sorescu G, Zhao Z-Q, Wang N-P, Guyton RA, Vinten-Johansen J. Activation of Opioid Receptors Mediates the Infarct size Reduction by Postconditioning. *J Molecular & Cellular Cardiol* 38: 827, 2005.
218. Zatta AJ, Kin H, Lofye MT, Amerson BS, Halkos ME, Kerendi F, Zhao Z-Q, Guyton RA, Vinten-Johansen J. Postconditioning Reduces Infarct Size via Activation of Adenosine  $A_{2A}$  and  $A_3$  Receptor Subtypes. *J Molecular & Cellular Cardiol* 38:812, 2005.
219. Kin H, Zatta AM, Lofye MT, Amerson BS, Halkos ME, Kerendi F, Zhao Z, Guyton RA, Headrick JP and Vinten-Johansen J. Postconditioning reduces infarct size via adenosine receptor activation by endogenous adenosine. *Cardiovascular Research* 67:124-133, 2005.
220. Kerendi F, Puskas JD, Craver JM, Cooper WA, Jones EL, Lattouf OM, Vega JD, Guyton RA. Emergency coronary artery bypass grafting can be performed safely without cardiopulmonary bypass in selected patients. *Ann Thorac Surg.* Mar;79(3):801-6, 2005.
221. Corvera JS, Kin H, Dobson GP, Kerendi F, Halkos ME, Katzmark S, Payne CS, Zhao ZQ, Guyton RA, Vinten-Johansen J. Polarized arrest with warm or cold adenosine/lidocaine blood cardioplegia is equivalent to hypothermic potassium blood cardioplegia. *J Thorac Cardiovasc Surg* Mar;129(3):599-606, 2005.

222. Kerendi F, Guyton RA. Replacement of mechanical mitral valve prosthesis due to patient intolerance of clicking noise: case report. *J Heart Valve Dis* Mar;14(2):261-3, 2005 Review
223. Halkos ME, Levy JH, Chen E, Reddy VS, Lattouf OM, Guyton RA, Song HK. Early experience with activated recombinant factor VII for intractable hemorrhage after cardiovascular surgery. *Ann Thorac Surg*. 2005 Apr;79(4):1303-6.
224. Halkos ME, Craver JM, Thourani VH, Kerendi F, Puskas JD, Cooper WA, Guyton RA. Intraoperative radiofrequency ablation for the treatment of atrial fibrillation during concomitant cardiac surgery. *Ann Thorac Surg*. 2005 Jul;80(1):210-5; discussion 215-6.
225. Horvath KA, Ferguson TB Jr, Guyton RA, Edwards FH. Impact of unstable angina on outcomes of transmyocardial laser revascularization combined with coronary artery bypass grafting. *Ann Thorac Surg*. 2005 Dec;80(6):2082-5.
226. Force SD, Miller DL, Petersen R, Mansour KA, Craver J, Guyton RA, Miller JI Jr. Incidence of deep sternal wound infections after tracheostomy in cardiac surgery patients. *Ann Thorac Surg*. 2005 Aug;80(2):618-21; discussion 621-2.
227. Sun HY, Wang NP, Halkos M, Kerendi F, Kin H, Guyton RA, Vinten-Johansen J, Zhao ZQ. Postconditioning attenuates cardiomyocyte apoptosis via inhibition of JNK and p38 mitogen-activated protein kinase signaling pathways. *Apoptosis*. 2006 Sep 11(9):1583-93.
228. Kerendi F, Kirshbom PM, Halkos ME, Wang NP, Kin H, Jiang R, Zhao ZQ, Kanter KR, Guyton RA, Vinten-Johansen J. Thoracic Surgery Directors Association Award. Cobalt chloride pretreatment attenuates myocardial apoptosis after hypothermic circulatory arrest. *Ann Thorac Surg*. 2006 Jun;81(6):2055-62; discussion 2062.
229. Guyton RA. Coronary artery bypass is superior to drug-eluting stents in multivessel coronary artery disease. *Ann Thorac Surg*. 2006 Jun;81(6):1949-57. Review.
230. Levy JH, Ramsay JG, Guyton RA. Aprotinin in cardiac surgery. *N Engl J Med*. 2006 May 4;354(18):1953-7; author reply 1953-7. No abstract available.
231. Kin H, Wang NP, Halkos ME, Kerendi F, Guyton RA, Zhao ZQ. Neutrophil Depletion Reduces Myocardial Apoptosis and Attenuates NFkappaB Activation/TNFalpha Release After Ischemia and Reperfusion. *J Surg Res*. 2006 Apr 7; [Epub ahead of print].
232. Cooper WA, O'Brien SM, Thourani VH, Guyton RA, Bridges CR, Szczech LA, Petersen R, Peterson ED. Impact of renal dysfunction on outcomes of coronary artery bypass surgery: results from the Society of Thoracic Surgeons National Adult Cardiac Database. *Circulation*. 2006 Feb 28;113(8):1063-70. Epub 2006 Feb 20.

233. Halkos ME, Cooper WA, Petersen R, Puskas JD, Lattouf OM, Craver JM, Guyton RA. Early administration of clopidogrel is safe after off-pump coronary artery bypass surgery. *Ann Thorac Surg*. 2006 Mar;81(3):815-9.
234. Zatta AJ, Kin H, Lee G, Wang N, Jiang R, Lust R, Reeves JG, Mykytenko J, Guyton RA, Zhao ZQ, Vinten-Johansen J. Infarct-sparing effect of myocardial postconditioning is dependent on protein kinase C signaling. *Cardiovasc Res*. 2006 May 1;70(2):315-24. Epub 2006 Jan 27.
235. Mykytenko J, Kerendi F, Reeves JG, Kin H, Zatta AJ, Jaian R, Guyton RA, Vinten-Johansen J, Zhao ZQ. Long-term inhibition of myocardial infarction by postconditioning during reperfusion. *Basic Re Cardiol*. Jan; 102(1):90-100, 2007.
236. Vassiliades TA Jr, Reddy VS, Puskas JD, Guyton RA. Long-term results of the endoscopic atraumatic coronary artery bypass. *Ann Thorac Surg*. Mar;83(3):979-84, 2007.
237. Puskas J, Lin E, Bailey D, Guyton R. Thoracoscopic radiofrequency pulmonary vein isolation and atrial appendage occlusion. *Ann Thorac Surg* May;83(5):1870-2, 2007.
238. Maxey TS, Grow P, Morris CD, Patton KT, Guyton RA. Biatrial primary cardiac paraganglioma: a rare finding. *Cardiovas Pathol*. May-Jun;16(3):179-82, 2007.
239. Tanaka KA, Thourani VH, Williams WH, Duke PG, Levy JH, Guyton RA, Puskas JD. Heparin anticoagulation in patients undergoing off-pump and on-pump coronary bypass surgery. *J Anesth* 21(3):297-303. 2007.
240. Jiang R, Zatta A. Kin, Wang N. Reeves JG, Mykytenko J, Deneve J, Zhao ZQ, Guyton RA, Vinten-Johansen J. PAR-2 activation at the time of reperfusion salvages myocardium via an ERK1/2 pathway in in vivo rat hearts. *Am J Physiol Heart Circ Physiol*. Nov;293(5):H2845-52. 2007.
241. Puskas JD, Kilgo PD, Kutner M, Pusca SV, Lattouf O, Guyton RA. Off-pump techniques disproportionately benefit women and narrow the gender disparity in outcomes after coronary artery bypass surgery. *Circ Sep* 11;116(11 Suppl):I192-9. 2007
242. Lattouf OM, Puskas JD, Thourani VH, Noora J, Kilgo PD, Guyton RA. Does the number of grafts influence surgeon choice and patient benefit of off-pump over conventional on-pump coronary artery revascularization in multivessel coronary artery disease? *Ann Thorac Surg* Nov;84(5):1485-94. 2007.
243. Kerendi F, Thourani VH, Puskas JD, Kilgo PD, Osgood M, Guyton RA, Lattouf OM. Impact of heparin-induced thrombocytopenia on postoperative outcomes after cardiac surgery. *Ann Thorac Surg* Nov;84(5):1548-53. 2007.

244. Yusuf S, Fallen E, Harrington RA, Guyton RA. Clinical decisions., Management of stable coronary disease. *N Engl J Med* Oct 25;357(17):1762-6. 2007.
245. Kin H, Wang NP, Mykytenko J, Reeves J, Jiang R, Zatta AJ, Guyton RA, Vinten-Johansen J, Zhao ZQ. Inhibition of Myocardial Apoptosis by Postconditioning is Associated with Attenuation of Oxidative Stress-Mediated Nuclear Factor-kappaB Translocation and TNFalpha Release. *Shock* Nov 8. 2008.
246. Zatta AJ, Kin H, Yoshishige D, Jiang R, Wang N, Reeves JG, Mykytenko J, Guyton RA, Zhao ZQ, Caffrey JL, Vinten-Johansen J. Evidence that cardioprotection by postconditioning involves preservation of myocardial Opioid content and selective Opioid receptor activation. *Am J Physiol Heart circ Physiol*. Mar;294(3):H1444-51. 2008.
247. Taggart DP, Kaul S, Boden WE, Ferguson TB Jr, Guyton RA, Mack MJ, Sergeant PT, Shemin RJ, Smith PK, Yusuf S. Revascularization for unprotected left main stem coronary artery stenosis stenting or surgery. *J Am Coll Cardiol* Mar 4;51(9):885-92 2008.
248. Kalogeropoulos AP, Halkos ME, Guyton RA, Martin RP, Clements SD Jr. Dense smoke in the operating room: epicardial ultrasonography in a large right coronary artery aneurysm. *Echocardiography* May;25(5):543-6, 2008.
249. Kin H, Wang NP, Mykytendo J, Reeves J, Deneve J, Jiang R, Zatta AJ, Guyton RA, Vinten-Johansen J, Zhao AZ. Inhibition of Myocardial Apoptosis By Postconditioning Is Associated With Attenuation of Oxidative Stress-Mediated Nuclear Factor-kappaB Translocation And TNFalpha Release. *Shock* June; 29(6):761-8, 2008.
250. Mykytenko J, Reeves JG, Kin H, Wang NP, Zatta AJ, Jiang R, Guyton RA, Vinten-Johansen J, Zhao ZQ. Persistent beneficial effect of postconditioning against infarct size; role of mitochondrial K(ATP) channels during reperfusion. *Basic Res Cardiol* July 3, 2008.
251. Halkos ME, Puskas JD, Lattouf OM, Kilgo P, Guyton RA, Thourani VH. Impact of preoperative neurologic events on outcomes after coronary artery bypass grafting. *Ann Thorac Surg* Aug;86(2):504-10, 2008.

b. Book chapters

1. Guyton RA, Daggett WM. 1976, Evaluation of myocardial infarction: physiologic basis for clinical intervention. In International Review of Physiology, Cardiovascular Physiology II, Guyton AC, Cowley AW, eds. Vol 9, Baltimore: University Park Press, 305-339.

2. Wheeler EI, Guyton RA, Lappas DG, Daggett WM. 1980, Rheumatic mitral valve disease. Tricuspid valve disease. In The Practice of Cardiology, Johnson RA, Haber E, Austen WG, eds. Boston: Little & Brown Co., Chapter 17, 433-470.
3. Kates RA, Kaplan JA, Dorsey LM, Hatcher CR Jr, Guyton RA. 1982, The myocardial protective effects of lidoflazine during heterogeneous cold potassium cardioplegia. In International Symposium on Protection of Tissue Against Hypoxia. Wauquier A, Borgers M, Amery WK, eds. Amsterdam: Elsevier Biomedical Press, 417-425.
4. Guyton RA. 1983, Method and magic in myocardial preservation. In Clinical Essays on the Heart, Hurst JW, ed. New York: McGraw-Hill, Vol. 1, 183-201.
5. Jones EL, Guyton RA, Michalik RE. 1985, Surgical treatment of combined carotid and coronary artery disease. In Difficult Problems in Adult Cardiac Surgery, Roberts AJ, ed. Chicago: Year Book Medical Publishing Inc., 117-125.
6. Hurst JW, Whitworth HB, O'Donoghue S, Hersh T, Clements SD, Franch RH, Guyton RA, Hendee AE, McDonald D, Slade BA. Heart disease due to ovarian carcinoid: successful replacement of the pulmonary and tricuspid valves with porcine heterografts and removal of the tumor. In Clinical Essays on the Heart, Hurst JW, ed. New York: McGraw-Hill, Vol. 5, 177-196, 1985.
7. Guyton RA, Williams WH, Hatcher CR Jr. Techniques of cardiopulmonary bypass". In The Heart: Arteries and Veins, Hurst JW, ed., 6th ed., New York: McGraw-Hill, 2025-2029, 1985.
8. Guyton RA, Hatcher CR Jr. Techniques of valvular surgery. In The Heart: Arteries and Veins, Hurst JW, ed., 6th ed., New York: McGraw-Hill, 2030-2036, 1985.
9. Guyton RA, Langford DA, Arcidi JM Jr, Morris DC, Liberman HA, Hatcher CR Jr. Intervention in acute myocardial infarction, the role of surgical management. In Acute Revascularization of the Infarcted Heart, Reves JG, ed., Orlando: Grune and Stratton, 1987;65-83.
10. Guyton RA. 1988, Myocardial protection as an integral part of overall operative strategy: Preoperative preparation and planning for optimal results. In Cardiac Surgery: State of the Art Reviews, Chitwood WR Jr, ed., Philadelphia: Hanley & Belfus, Inc.;279-289.
11. Connolly MW, Guyton RA. 1991, Surgical Intervention in Coronary Heart Disease in Rehabilitation of the Coronary Patient. Wenger, NK, Hellerstein, HK, ed. Churchill Livingstone, New York.
12. Guyton RA. 1995, The Myocardium: Physiology and Protection During Cardiac Surgery and Cardiopulmonary Bypass. In: Mora CT, ed. Cardiopulmonary Bypass Principles and Techniques of Extracorporeal Circulation, New York: Springer-Verlag;21-39.

13. Bufkin BL, Guyton RA, Ventricular Assist Devices. In: Mora CT, ed. *Cardiopulmonary Bypass Principles and Techniques of Extracorporeal Circulation*, New York: Springer-Verlag, 1995:399-412.
  14. Guyton RA, Warm-Blood Cardioplegia and Normothermic Cardiopulmonary Bypass. In: Mora CT, ed. *Cardiopulmonary Bypass Principles and Techniques of Extracorporeal Circulation*, New York: Springer-Verlag, 1995:484-492.
  15. Guyton RA, Gott JP. 1996, Critical evaluation of warm blood cardioplegia. In *Warm Heart Surgery*, Salerno, editor. Edward Arnold (publisher) Ltd.
  16. Guyton RA. A Synopsis of Cardiac Physiology. In: Edmunds, LH, ed. *Cardiac Surgery in the Adult*, New York: McGraw-Hill, 1997:59-83.
  17. Gott JP, Giradot NM, Girardot JM, Guyton RA. 1997, Preclinical Evaluation of Improved Treatment with Alpha Aminooleic Acid Confirming Antimineralization Efficacy and Preservation of Tissue Integrity. In: Gabbay S, Wheatley DJ, eds. *Advances in Anticalcific and Antidegenerative Treatment of Heart Valve Bioprotheses*, Austin: Silent Partners, Inc: 157-165.
- c. Books edited and written
1. Co-editor, Cardiopulmonary Bypass Principles and Techniques of Extracorporeal Circulation, New York: Springer-Verlag.