

CURRICULUM VITAE

Thomas H. Adair, PhD
Professor of Physiology and Biophysics
University of Mississippi Medical Center
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Jackson, Mississippi 39216-4505
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Consultant Business: tadair.business@gmail.com
Date of Birth: December 25, 1950
Place of birth: Flint, Michigan

Private Mailing Address:
P.O. Box 55581
Jackson, Mississippi 39296

EDUCATION/TRAINING

Undergraduate School: Northern Michigan University 1969-1971
Michigan State University 1972-1973
1969-73, B.S. (Biology/Physical Sciences)

Graduate School: Western Michigan University
Kalamazoo, Michigan
Masters Thesis: Effects of lithium salts on gastric secretion
and ulcer formation in rats. Mentors: Leonard J. Beuving,
PhD, and Andre' Robert, MD, PhD
1973-1976, MA

University of Texas Medical Branch, Galveston, Texas.
Doctoral Dissertation: Cardiopulmonary sequelae of burn
wound sepsis in awake sheep. Mentor: D. L. Traber, PhD
1977-1980, PhD

Fellowship: Department of Physiology and Biophysics
University of Mississippi Medical Center
Project: Effect of lymph node on composition of lymph.
Mentor: Arthur C. Guyton, MD
1980-83

ACADEMIC POSITIONS

Instructor: Department of Physiology and Biophysics
University of Mississippi Medical Center

November 1980-June 1981

Assistant Professor: Department of Physiology and Biophysics
University of Mississippi Medical Center
July 1981-June 1985

Associate Professor: Department of Physiology and Biophysics
University of Mississippi Medical Center
July 1985-June 1989

Professor: Department of Physiology and Biophysics
University of Mississippi Medical Center
2500 North State Street
Jackson MS 39216
July 1989-Present

HONORS AND AWARDS

McLaughlin Predoctoral Fellowship (1978-80)
Sigma Xi Award (for doctoral research) (1980)
NHLBI Research Service Award (1980-83)
NHLBI New Investigator Research Award (1984-87)
Fellow, Cardiovascular Section (1988)
American Physiological Society
NHLBI Research Career Development Award (1988-93)
UMMC – Gold Level for Excellence in Research Award
American Dental Association, National Test Construction Committee,
Biochemistry-Physiology. 1991-1995
National Board of Medical Examiners, USMLE Step 1 Committee Member,
Physiology. 2004-08
Examination reviewer for National Board of Medical Examiners,
2009 – Physiology Subject Examination
Carl G. Evers Teaching Award, 2009
Carl G. Evers Teaching Award, 2010
Carl G. Evers Teaching Award, 2011
Carl G. Evers Teaching Award, 2013
Hembree Teaching Award, 2014
UMMC Teaching Hall of Fame, 2015

PROFESSIONAL MEMBERSHIPS

American Physiological Society (1984)
The Shock Society (1977, charter member)
International Society of Lymphology (1983)
Microcirculation Society (1984)
Mississippi Academy of Sciences (1986)
American Heart Association (1986)

REVIEW SERVICE - GRANTS/JOURNALS

Editorial Board:

American Journal of Physiology, Regulatory 1990-2001
Journal of Applied Physiology, 1999-2002
Frontiers in Integrative Physiology, 2010-2014

Guest Reviewer (Journals):

American Journal of Physiology, Cell / Heart / Regulatory
Arteriosclerosis, Thrombosis, and Vascular Biology
Circulation
Circulation Research
European Journal of Physiology
European Respiratory Journal
Experimental Lung Research
Experimental Cell Research
Experimental Physiology
FEBSLETTERS
High Altitude Medicine and Biology
Hypertension
Journal of Applied Physiology
Journal of Vascular Research
Microcirculation
Microvascular Research
Physiological Genomics
Respiration
Respiratory Physiology
Vascular Research

Study Sections / Grant Reviews

NIH Site Visit Team, Program Project Grant, Tobacco and Health Research
Institute, Lexington, KY. October 4-6, 1989.
Veterans Administration, Merit Review Board, 1991-92
National Science Foundation, 1993-1997
International Science Foundation, 1993-1996

NHLBI, Experimental Cardiovascular Sciences Study
Section, Ad Hoc, 1994.
NHLBI, Special Emphasis Panel, Angiogenesis in Breast Cancer Complications,
November, 1994.
NHLBI, Special Emphasis Panel, Career Development Awards,
November, 1995.
United States-Israel Binational Science Foundation, 1997-2000
Juvenile Diabetes Foundation, Program Project Grant, Gene Therapy Program,
July 2000.
NHLBI, Program Project Review, Stress Regulation of Coronary Angiogenesis
May, 2002
NHLBI, RFA, Tissue Engineering, July 2002.
AHA, R4VBBP2 Peer Review Study Group, 2007, 2008

TEACHING ACTIVITIES

Instruction in Physiology

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| 1973-75 | General Physiology, Western Michigan University, Laboratory Instructor. |
| 1977-79 | Integrated Functional Laboratories, University of Texas Medical Branch, Assistant Laboratory Director. |
| 1978-79 | Medical Physiology, University of Texas Medical Branch, Tutor for ethnic minority students. |
| 1980-82 | Undergraduate Physiology for Nurses, University of Mississippi Medical Center, Lecturer. Cardiovascular Physiology Respiratory Physiology Gastrointestinal Physiology |
| 1984 | Advanced Physiology for Graduate Nurses, University of Mississippi Medical Center, Lecturer. Renal Physiology Microcirculation and Fluid Balance |
| 1984-90 | Medical Physiology, University of Mississippi Medical Center, Lecturer. Microcirculation, Tissue fluid Dynamics, and Lymphatic System |
| 1980-current | Dental Physiology, University of Mississippi Medical Center. Lectures on the following subjects at various times: |

Circulatory Physiology
Renal Physiology and Fluid & Electrolytes
Respiratory Physiology
Physiology of the Heart
Nerve and Skeletal Muscle
Gastrointestinal Physiology
Central Nervous system / Special senses

1998-2002 Introduction to Clinical Medicine. University of Mississippi Medical Center. Lectures on Cardiac and pulmonary physiology

2000-current Medical Physiology, University of Mississippi Medical Center.
Gastrointestinal Physiology
Neurophysiology / Muscle Physiology
Central Nervous System / Special Senses (2011-2016)

2017-current Medical Neuroscience and Behavior, University of Mississippi Medical Center
Lectures on the Eye, Neuronal Communication, Taste and Smell, and blood flow control.

Director of Physiology Courses

1989-90 Course Director, Dental Board Review Course

1989-present Course Director, Physiology Course for Dental Students

2013-present Course Director, Scientific Communications in Physiology

Kaplan-Med USMLE Step I Test Prep Course

1996-2004 Instructor

Subjects taught: cardiovascular, pulmonary, and renal physiology.

Locations: Kaplan Center-Manhattan NYC, State University of New York - Brooklyn NYC, Chicago locations, Maharry Medical School, East Tennessee State University, Ross University-Dominica, New Jersey Locations, Philadelphia locations, Houston locations, University of South Florida

Kaplan-Med Item Writer

1998-2004 Contributions to online question banks, review books, and final exams for Kaplan-Med review courses.

2011-pre Contributions to online question banks, review books, and final exams for Kaplan-Med review courses.

ADA National Test Construction Committee

American Dental Association, National Board Test Construction Committee, Biochemistry-Physiology. 1991-1995

National Board of Medical Examiners. USMLE Step 1 Committee Member, Physiology. 2005, 2006, 2007, 2008

Medical Review Books and Chapters

Adair, T.H. and A.C. Guyton. Physiology. In: E.D. Frohlick (ed.). *Rypins' Questions & Answers for Boards Review: Basic Sciences*, Ch. 3. J.B. Lippincott Company, Philadelphia, 1st edition, 1987.

Adair, T.H. and J-P. Montani. Physiology. In: E.D. Frohlick (ed.). *Rypins' Questions & Answers for Boards Review: Basic Sciences*, Ch. 3. J.B. Lippincott Company, Philadelphia, 2nd edition, 1993.

Hall, J.E and T.H. Adair. Physiology. In: E.D. Frohlick (ed.). *Rypins' Questions & Answers for Boards Review: Basic Sciences*, Ch. 3., J.B. Lippincott Company, Philadelphia, 3rd edition, 1997.

Hall, J.E. and T.H. Adair, Physiology, In: E.D. Frohlick (ed.) *Rypins' Medical Boards Review: Basic Sciences*, Ch. 3., J.B. Lippincott Company, Philadelphia, 17th edition, 1997; 18th edition, 2000.

Hall, J.E. and T.H. Adair. *Rypins' Intensive Reviews: Physiology*. J.B. Lippincott Company, Philadelphia, 1st edition, 1998.

Prepared the following four major units for the book: A.C. Guyton and J.E. Hall (eds.) *Pocket Companion for Textbook of Medical Physiology*. Elsevier/W.B. Saunders, Philadelphia, for 10th, 11th, 12th, 13th Editions

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| Unit II: | Membrane Physiology, Nerve, and Muscle. |
| Unit VII: | Respiration. |
| Unit VIII: | Aviation, space, and Deep Sea Diving Physiology. |
| Units IX, X, XI: | The Nervous System |
| Unit XII: | Gastrointestinal Physiology. |

Prepared the following units for the book: Guyton and Hall (ed.) *Physiology Review. (This is a question and answer book)*. Elsevier/W.B. Saunders, Philadelphia, for 1st, 2nd, and 3rd Editions.

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| Unit II: | Membrane Physiology, Nerve, and Muscle. |
| Unit VII: | Respiration. |
| Unit VIII: | Aviation, space, and Deep Sea Diving Physiology. |
| Units IX, X, XI: | The Nervous System |
| Unit XII: | Gastrointestinal Physiology. |

TEACHING AWARDS

Carl G. Evers Teaching Award, 2009
Carl G. Evers Teaching Award, 2010
Carl G. Evers Teaching Award, 2011
Carl G. Evers Teaching Award, 2013
Hembree Teaching Award, 2014
UMMC Teaching Hall of Fame, 2015

RESEARCH AWARDS

1974-75. The Upjohn Company, Kalamazoo, Michigan. Research Fellowship Award, Project: Effect of Lithium Salts on Gastric Secretion.

1975-76. The Upjohn Company, Kalamazoo, Michigan. Research Fellowship Award. Project: Effect of Lithium Salts on Ulcer Formation.

1978-80. University of Texas Medical Branch, Galveston, Texas. McLaughlin Predoctoral Fellowship. Project: Cardiopulmonary Sequelae of Burn Wound Sepsis.

1980-83. National Institutes of Health. (Principal Investigator). National Research Service Award (HL-06122). Title: Effect of Lymph Node on Lung Lymph Composition.

1982-83. National Institutes of Health. (Principal Investigator). Biomedical Research Support Grant. Title: Effect of Prenodal Lymph Vessels on Protein Concentration of Lymph.

1983-88. National Institutes of Health. Program Project Grant (HL-11678). Title: Cardiovascular Dynamics and Their Control. Principal Investigator, A. C. Guyton. Total Project VII: Dynamics of Tissue Fluids; Capillary, Interstitial, and Lymph Dynamics; Pulmonary Edema; and Electrolyte Control. Principal Investigator, T.H. Adair.

1984-87. National Institutes of Health. New Investigator Research Award (HL-32049). Title: Modification of Lymph by Lung and Systemic Lymph Nodes. Principal Investigator, T.H. Adair.

1988-93. National Institutes of Health. Program Project Grant (HL-11678). Title: Cardiovascular Dynamics and Their Control. Principal Investigator, A.C. Guyton. Total Project VI: Microcirculatory Dynamics and Tissue and Lymph Fluid. Principal Investigator, T.H. Adair.

1988-93. National Institutes of Health. (Principal Investigator). Research Career Development Award (HL-02117), Title: Microvascular Control: Vascularity and Fluid

Environment. Principal Investigator, T.H. Adair.

1989-94. National Institutes of Health. RO1 (HL-42402). Title: Microcirculatory Adaptations and Their Control. Principal Investigator, T.H. Adair.

1994-98. National Institutes of Health. Program Project Grant (HL- 51971). Title: Cardiovascular Dynamics and Their Control. Principal Investigator, J.E. Hall. Total Direct Costs, \$5,107,348. Project VI: Control of Microcirculatory Structure and Function. Principal Investigator, T.H. Adair.

1999-03. National Institutes of Health. Program Project Grant (HL- 51971). Title: Cardiovascular Dynamics and Their Control. Principal Investigator, J.E. Hall. Total Direct Costs, \$6,000,000. Project V: Control of Microcirculatory Structure and Function. Principal Investigator, T.H. Adair.

POSTGRADUATE / TRAINEE PROGRAM

1985-87. Jean-Pierre Montani, M.D., Visiting Assistant Professor.
Present Position: Chairman, Institute of Physiology
University of Fribourg, Switzerland

1987-89. David M. Strick, Ph.D., Postdoctoral Fellow. Sponsor:
NHLBI National Research Service Award, HL-08003, Project:
Microcirculatory Control- -Dynamic Aspects of Vascularity.

1987-88. Noel G. McHale, Ph.D., Visiting Associate Professor.
Present Position: Professor, Department of Physiology,
The Queen's University of Belfast, Northern Ireland.

1995-97. Jian-Wei Gu, M.D., Postdoctoral Fellow
Present Position: Instructor, Department of Physiology,
University of Mississippi Medical Center.

GRADUATE TRAINEE PROGRAM

Graduate Students:

A. William Paulson, Ph.D., Committee Member.

Jorge Valenzuela-Rendon, M.D., Ph.D., Committee Member.

Jian Hang, M.D., Committee Chairman, Doctoral Degree, 1996.

Wen Li, M.D., Committee Chairman, Master Degree, 2001

Shumei Meng, M.D., Committee Member, 2003.

Yun Dai, M.D., Committee Member, Doctoral Degree, 2004.
Janell Pryor, Ph.D., Committee Chairman, Doctoral Degree, 2011.

Medical Students:

Michael M. Story, M.D., Summer Research Fellowship.
Allan Zacharias, M.D., Summer Research Fellowship.
Lance Waycaster, M.D., Summer Research Fellowship.
David W. Ball, M.D., Summer Research Fellowship.
Kush Agrawal, M.D., Summer Research Fellowship

INVITED PRESENTATIONS/MEETING ORGANIZATION

National Student Research Forum, Galveston, Texas. Chairman,
Cardiovascular Section, 1979.

Department of Physiology, Albany Medical College, Albany, New York. Lung Vascular
Permeability Studies. April 1-2, 1980.

Department of Anesthesiology, University of Texas Health Sciences
Center, Houston, Texas. Lymph Node Fluid Dynamics. May 10-13, 1981.

Department of Physiology, The Queen's University of Belfast,
Belfast, Northern Ireland. Effect of Lymph Node on Composition of
Lymph. August 9-12, 1982.

Department of Anesthesiology, University of Grenoble, Grenoble,
France. Lymph Protein Concentration Modification by the Dog
Popliteal Lymph Node. August 17-20, 1982.

Department of Physiology, University of South Alabama, Mobile,
Alabama. Lymph Node Fluid Dynamics. March 9-12, 1983.

Gordon Research Conference on Drug Metabolism, Plymouth, New
Hampshire. Function and Physiology of the Lymphatic System.
July 25-28, 1983.

International Society of Lymphology, North American Chapter.
Houston, Texas. Symposium Lecture. Studies of Lymph Modification
by Lymph Nodes. November 9-10, 1984

Mississippi Academy of Sciences, Chairman, Health Sciences
Section, 1988.

Department of Physiology and Endocrinology, Medical College of

Georgia, Augusta. Role of Oxygen and other Metabolic Factors on the Development of the Vasculature. February 6-8, 1989.

Institute of Anatomy, University of Bern, Switzerland.
Mini-Satellite Symposium. Title: Control of blood vessel development in chick embryos. July 6, 1989.

Mississippi Academy of Sciences, Invited Lecture, Biloxi, MS.
Regulation of blood vessel growth. February 22, 1990.

Department of Physiology and Biophysics, Louisiana State University, Shreveport,
Growth Regulation of the Vascular System. April 30, 1990.

4th International Symposium on Adenosine and Adenine Nucleotides,
Lake Yamanaka, Japan. Title: Role of Adenosine in Growth Regulation of the Vascular System. May 13-17, 1990.

Fifth World Congress on Microcirculation. Lexington, Kentucky. Chairman,
Angiogenesis Session. August 31-September 6, 1991.

Department of Pathology, University of Mississippi Medical Center, Regulation of blood vessel growth: evidence for a metabolic hypothesis. February 3, 1992.

Department of Anatomy and Physiology, Queen's University of Belfast,
Belfast, Northern Ireland, Regulation of blood vessel growth: evidence for a metabolic hypothesis. July 3, 1992

17th Meeting of the European Society for Microcirculation. London, England. Plenary Lecture: The Operation of the Lymphatic System. July 7, 1992.

Joint Symposium on Lymph Formation and Lymphedema, Washington D.C. Symposium talk: Lymph Node Fluid Transfer Dynamics: Implications for Lymph Formation. September 24, 1993.

Cardiovascular Dynamics and Their Control. Jackson, Mississippi. Symposium Talk: Mechanisms of Angiogenesis. September 20, 1994.

APS Intersociety Meeting: Regulation, Integration, Adaptation: A Species Approach. Symposium Talk: Regulation of Vascular Development. San Diego, California. November 1, 1994.

Metabasis Therapeutics, Inc. Regulation of Angiogenesis by Adenosine and VEGF. San Diego, California, December 4, 1998.

7th International Symposium on Resistance Arteries: Session Chair, Physiological Regulation of Angiogenesis. Ontario, Canada. July, 2001.

8th International Symposium on Adenosine and Adenine Nucleotides. An emerging role for adenosine in angiogenesis. Ferrara, Italy. May, 2006.

UNIVERSITY COMMITTEES

Student Appeals Committee, Dental School, 1989.
Search Committee, Chairperson, Biochemistry, 1989.
Basic Science Department LCME Self Study, 1989.
Curriculum Committee, Dental School, 1999-15
Dental Basic Science Self Study Group, 2001-2002
Admissions Committee, Dental School, 2005-08
Ad Hoc Student Appeals Board, Dental School, 2008
SOM SACS Audit Subcommittee, 2008
Medical school promotions committee, 2013-present
Continuous Quality Improvement, 2013-present

STATE / NATIONAL COMMITTEES

American Physiological Society, CV section, Awards Committee, 2010-13

National Board of Medical Examiners, USMLE Step 1 Physiology Test Committee, 2005-2008.

American Dental Association, National Board Test Construction Committee, Biochemistry-Physiology. Committee Meetings, ADA Headquarters, Chicago: 1991, 1992, 1993, 1994, 1995

Microcirculatory Society, Development Committee, 1992-1994

Microcirculatory Society, Executive Council, 1994-1997

American Physiological Society, Awards Committee, 1996-1999

Professional Education Task Force, American Heart Association - Mississippi Affiliate, 1996

PUBLICATIONS / CHAPTERS / ABSTRACTS

1. Adair, T.H. and Robert A. Antisecretory effects of lithium chloride. *Gastroenterology* 70:966, 1976.
2. Konturek, S.J., T.H. Adair, P.L. Rayford and J.C. Thompson. pH profile of gastric acid, serum gastrin, and secretion responses to gastric and intestinal meals in the dog. *Gastroenterology* 70:903, 1976.
3. Adair, T.H., P.D. Thomson and D.L. Traber. Gram-negative sepsis in thermally injured sheep. *Circ. Shock* 5:220, 1978.
4. Adair, T.H., P.D. Thomson, N. Biondo, M. Browne and D.L. Traber. Development of sepsis in chronically burned sheep. *Fed. Proc.* 37:775, 1978.
5. Traber, D.L., W.J. Decker, T.H. Adair and M.A. Crawford. The use of sheep in the student laboratory. *Fed. Proc.* 37:626, 1978.
6. Adair, T.H., P.D. Thomson, H.A. Linares and D.L. Traber. Cardiopulmonary sequelae of Pseudomonas burn wound sepsis. (Presented at the meeting of the *American Burn Association*, March 15-17, 1979.)
7. Adair, T.H. and D.L. Traber. Cardiopulmonary sequelae of burn wound sepsis. *Fed. Proc.* 38:1260, 1979.
8. Adair, T.H. and D.L. Traber. Mechanism of pulmonary edema in burn wound sepsis. *Anesthesiology* 51:5175, 1979.
9. Traber, D.L., T.H. Adair and P.D. Thomson. Cardiopulmonary effects of fluid resuscitation following burn wound sepsis. *Circ. Shock* 6:177, 1979.
10. Adair, T.H., P.D. Thomson and D.L. Traber. Gram-negative sepsis in thermally injured sheep. *Advances in Shock Research* 2:205-218, 1979.
11. Adair, T.H. and D.L. Traber. Acute Pseudomonas septicemia in thermally injured sheep. *Fed. Proc.* 39:1206, 1980.
12. Gabel, J.C., R. Scott, T.H. Adair, R. Drake, and D.L. Traber. Evaluation of equations used to calculate oncotic pressure. *Fed. Proc.* 39:78, 1980.
13. Adair, T.H. and D.L. Traber. Comparison of cardiopulmonary responses during acute and chronic Pseudomonas burn wound sepsis. *Circ. Shock* 7:25, 1980.
14. Traber, D.L., T.H. Adair and P.D. Thomson. The effects of intravenous fluid administration on the cardiopulmonary sequelae of burn wound sepsis. *Advances in Shock Research* 4:27-32, 1980.

15. Gabel, J.C., R.L. Scott, T.H. Adair, R.E. Drake and D.L. Traber. Errors in calculated oncotic pressure of dog plasma. *Am. J. Physiol.* 239:H810-H812, 1980.
16. Gabel, J, T. Adair, R. Drake and D. Traber. Nonpulmonary contamination in the chronic sheep lung lymph preparation *Fed. Proc.* 40:403, 1981.
17. Traber, D.L., T.H. Adair, T. Adams, N. Biondo, H. Henriksen, L.D. Traber. The nature of the cardiopulmonary response produced by endotoxin. *Fed. Proc.* 40:476, 1981.
18. Adair, T.H., D.S. Moffatt and A.C. Guyton. Lymph flow and composition is modified by the lymph node *Microvasc. Res.* 21:234, 1981.
19. Adair, T.H. and A.C. Guyton. Fluid ultrafiltration across the intranodal blood-lymph barrier modifies lymph flow and protein concentration. Presented at the *International Society of Lymphology*, Montreal, 1981.
20. Adair, T.H., A.W. Paulsen, D.S. Moffatt and A.C. Guyton. Filtration coefficient of the blood-lymph barrier in the popliteal node. *Physiologist* 24(4):107, 1981.
21. Traber, D.L., T.H. Adair and T. Adams. Is endotoxin responsible for the cardiopulmonary lesions seen during acute burn wound sepsis? *Circ. Shock* 8:195, 1981.
22. Traber, D.L., T.H. Adair and T. Adams. Hemodynamic consequences of endotoxemia in sheep *Circ. Shock* 8:551-561, 1981.
23. Drake, R., T. Adair, D. Traber and J. Gabel. Contamination of caudal mediastinal node efferent lymph in the sheep *Am. J. Physiol.* 241:H354-H357, 1981.
24. Adair, T.H., A.C. Guyton and D.S. Moffatt. Determination of the dog popliteal lymph node microvascular hydrostatic pressure. *Fed. Proc.* 41(5):1497, 1982.
25. Adair, T.H., R.E. Drake and A.C. Guyton. Fluid ultrafiltration across the intranodal blood-lymph barrier modifies lymph flow and protein concentration. In: V. Bartos and J.W. Davidson (Eds.) *Advances in Lymphology*; Avicenum, Czechoslovak Medical Press. Praque, pp. 100-114, 1982.
26. Adair, T.H., D.S. Moffatt, A.W. Paulsen and A.C. Guyton. Quantification of changes in lymph protein concentration during lymph node transit *Am. J. Physiol.* 243:H351-H359, 1982.
27. Moffatt, D.S., A.C. Guyton and T.H. Adair. Functional diagrams of flow and volume for the dog's lung. *J. Appl. Physiol.* 52:1035-1042, 1982.

28. Traber, D.L., T.H. Adair and T. Adams. Is endotoxin responsible for the cardiopulmonary lesions seen during acute burn wound sepsis? *Advances in Shock Research*, 7:91-100, 1982.
29. Adair, T.H. and A.C. Guyton. Effect of venous pressure on lymph node modification of lymph. *Fed. Proc.* 42(3):579, 1983.
30. Adair, T.H. and A.C. Guyton. Modification of lymph by lymph nodes II. Effect of increased lymph node venous blood pressure. *Am. J. Physiol.* 245:H616-H622, 1983.
31. Adair, T.H., R.D. Hogan, A.R. Hargens and A.C. Guyton. Techniques in the Measurement of Tissue Fluid Pressures and Lymph Flow. In: R.J. Linden (Ed.) *Techniques in Cardiovascular Physiology*, Vol. 1, Sect. P308. Elsevier, Amsterdam, 1983, pp. 1-27.
32. Summers, R.L., Adair, T.H., Coleman, T.G. and A.C. Guyton. Mathematical model of lymph node fluid dynamics. *Microvasc. Res.* 27:266, 1984.
33. Adair, T.H. and J-P. Montani. Effect of endotoxin on permeability of lymph node blood-lymph barrier. *Fed. Proc.* 43(4):1033, 1984.
34. Adair, T.H. and A.C. Guyton. Measurement of tissue fluid pressure using a skin cup method. *Int. J. Microcirc.: Clin. and Exper.* 3:515, 1984.
35. Adair, T.H., J-P. Montani and A.C. Guyton. Modification of lymph by the sheep caudal mediastinal node: Effect of intranodal endotoxin. *J. Appl. Physiology*, 57(5):1597-1601, 1984.
36. Guyton, A.C., D.S. Moffatt and T.H. Adair. Role of Alveolar surface tension in transepithelial movement of fluid. In: B. Robertson, L.M.G. Van Golde, and J.J. Batenburg (Eds.) *Pulmonary Surfactant*, Ch. 5. Elsevier, Amsterdam, 1984, pp. 171-185.
37. Adair, T.H. Studies of lymph modification by lymph nodes. *Microcirc., Endothelium, and Lymphatics*, 1985.
38. Adair, T.H. and A.C. Guyton. Studies of structural vascular resistance in chick embryo. *Microvasc. Res.* 29:204, 1985.
39. Adair, T.H. Effect of lymph pressure on lymph node modification of lymph. *Fed. Proc.* 44(3):638, 1985.

40. Adair, T.H. and A.C. Guyton. Measurement of subcutaneous tissue fluid pressure using a skin cup method. *J. Appl. Physiol.* 58(5):1528-1535, 1985.
41. Adair, T.H. Studies of lymph modification by lymph nodes. *Microcirc., Endothelium, and Lymphatics*, 2(3):251-269, 1985.
42. Adair, T.H. and A.C. Guyton. Modification of lymph by lymph nodes III. Effect of Increased lymph hydrostatic pressure. *Am. J. Physiol.* 249:H777-H782, 1985.
43. Rubin, J., T. Adair, Q. Jones, and E. Klein. Inhibition of peritoneal protein losses during peritoneal dialysis in dogs. *ASAIO* 8(4):234-237, 1985.
44. Adair, T.H. and A.C. Guyton. Physiology- Lymph Formation, Its Control and Lymph Flow. In: M.E. Clouse and S. Wallace (Eds.) *Lymphatic Imaging: Lymphography, Computed Tomography and Scintigraphy.*, 2nd edition, Ch. 5. Williams & Wilkins, Baltimore, 1985, pp. 120-141.
45. Adair, T.H. and A.C. Guyton. Introduction to the Lymphatic System. In: M.G. Johnston (Ed.) *Experimental Biology of the Lymphatic Circulation*, Ch. 1. Elsevier, Amsterdam, 1985, pp. 1-12.
46. Adair, T.H. and A.C. Guyton. Lymph formation and Its modification in the lymphatic system. In: M.G. Johnston (Ed.) *Experimental Biology of the Lymphatic Circulation*, Ch. 2. Elsevier, Amsterdam, 1985, pp. 13-44.
47. Adair, T.H., J-P. Montani, H.L. Lindsay and A.C. Guyton. Structural vascular adaptation to hypoxia in the chick embryo. *Fed. Proc.* 45(3):409, 1986.
48. Montani, J-P., T.H. Adair, T.G. Coleman and A.C. Guyton. Physiological modeling: A simulator for the IBM PC. *Fed. Proc.* 45(4):1139, 1986.
49. Adair, T.H., J-P. Montani, H.L. Lindsay and A.C. Guyton. Role of oxygen in development of chick embryo vasculature. *Proceedings of the International Union of Physiological Sciences XVI*: 513.08, 1986.
50. Adair, T.H., J-P. Montani and A.C. Guyton. Studies on the role of oxygen in development of blood vascular system. *J. Miss. Acad. Sci.* 32(Suppl.): 48, 1987.
51. Montani, J-P., T.H. Adair, T.G. Coleman and A.C. Guyton. Simulation of large biological systems on the microcomputer: A computer methodology. *J. Miss. Acad. Sci.* 32(Suppl.): 55, 1987.
52. Adair, T.H., J-P. Montani and A.C. Guyton. Role of intermittent hypoxia in structural adaptation of chick embryo vasculature. *Fed. Proc.* 46(3):352, 1987.

53. Montani, J-P., T.H. Adair, B.S. Nuwayhid and A.C. Guyton. Arterial blood pressure control during chronic intrarenal infusion of acetylcholine. *Fed. Proc.* 46(3):667, 1987.
54. Adair, T.H., J-P. Montani and A.C. Guyton. Role of adenosine in growth regulation of chick embryo vasculature. *Physiologist* 30(4):121, 1987.
55. Adair, T.H., A.C. Guyton, J-P. Montani, H.L. Lindsay and K.A. Stanek. Whole body structural vascular adaptation to prolonged hypoxia in chick embryos. *Am. J. Physiol.* 252:H1228-1234, 1987.
56. Adair, T.H. and A.C. Guyton. Physiology. In: E.D. Frohlick (Ed.) *Rypins' Questions & Answers for Boards Review: Basic Sciences*, Ch. 3. J.B. Lippincott Company, Philadelphia, 1987, pp. 43-64.
57. Guyton, A.C., T.H. Adair, R.D. Manning and J. Valenzuela-Rendon. Fluid dynamics and control in the interstitial-lymphatic system. In: N.C. Staub, J.C. Hogg, and A.R. Hargens (Eds.) *Interstitial-Lymphatic Liquid and Solute Movement*. Ch. X, Vol. 13. Karger, New York, 1987, 95-109.
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