CURRICULUM VITAE

Charles W. Otto, M.D., F.C.C.M.

Professor, Anesthesiology
The University of Arizona College of Medicine
Tucson, AZ

1959	Lincoln-Way Community High School, New Lenox, IL

1963 B.A., Swarthmore College, Swarthmore, PA

1968 M.D., University of Missouri-Columbia School of Medicine,

Columbia, MO

1965-1966 Post-Sophomore Fellow in Pathology, University of Missouri-Columbia

School of Medicine, Columbia, MO

1968-1970 Resident in Medicine, University of Kentucky Medical Center,

Lexington, KY

1972-1973 Clinical Fellow in Anesthesia, Respiratory Intensive Care Unit,

Massachusetts General Hospital, Harvard Medical School, Boston, MA

1973-1975 Resident in Anesthesia, Massachusetts General Hospital, Harvard Medical

School, Boston, MA

Board Certification:

Education:

1975 Diplomat, American Board of Anesthesiology

1986 Subspecialty Certification in Critical Care Medicine, American Board of

Anesthesiology

1987-1997 Subspecialty Certification in Critical Care Medicine, American Board of

Internal Medicine

2002-2012 Recertification, American Board of Anesthesiology

2013-2022 Recertification, American Board of Anesthesiology

Licensure:

1968 Missouri
1969 National Board of Medical Examiners
1969 Kentucky
1975 Arizona

1982 Oregon

Military Service:

1970-1972 Staff Physician in Anesthesiology and Medicine, U.S. Army, DeWitt Army Hospital, Ft. Belvoir, Virginia and 3rd Field Hospital, Saigon, Vietnam

Employment:

1975-1982	Assistant Professor of Anesthesiology and Medicine, University of Arizona College of Medicine, Tucson, AZ
1975-Present	Director of Critical Care Medicine, University of Arizona Health Sciences, Tucson, AZ
1975-1990	Medical Director of Respiratory Therapy, University of Arizona Health Sciences, Tucson, AZ
1975-2001	Consultant in Anesthesiology, Tucson Veteran's Administration Hospital, Tucson, AZ
1975-1990	Medical Director, School of Respiratory Therapy, Pima Community College, Tucson, AZ
1982-1988	Associate Professor of Anesthesiology (Tenured), Assistant Professor of Medicine, University of Arizona College of Medicine, Tucson, AZ
1985 (Feb-June)	Acting Head, Department of Anesthesiology, University of Arizona College of Medicine, Tucson, AZ
1985 (July-Dec)	Visiting Worker, Division of Anaesthesia, Clinical Research Center,

Northwick Park Hospital, Harrow, Middlesex, Great Britain

1988-Present Professor of Anesthesiology (Tenured), Associate Professor of Medicine,

University of Arizona College of Medicine, Tucson, AZ

1994-1995 Acting Head, Department of Anesthesiology, University of Arizona

College of Medicine, Tucson, AZ

Major Fields:

Critical care medicine with research emphasis on cardiopulmonary resuscitation and respiratory intensive care.

Visiting Professorships:

1978	Washington University, St. Louis, Missouri
1980	University of Missouri-Columbia, Columbia, Missouri
1981	Medical University of South Carolina, Charleston, South Carolina
1982	University of Florida, Gainesville, Florida
1984	Texas Tech University at El Paso, El Paso, Texas
1985	Clinical Research Center, Northwick Park Hospital, Harrow, Great Britain
1985	Klinikum Grosshadern, Munich, Germany
1985	Stadt Krankenhaus Schwabing, Munich Germany
1985	Zagazig University, Zagazig, Egypt
1986	Northwestern University, Chicago, Illinois
1989	University of Arkansas, Little Rock, Arkansas
1990	The Johns Hopkins University, Baltimore, Maryland
1990	University of New Mexico, Albuquerque, New Mexico
1990	University of Illinois, Chicago, Illinois
1990	Rush-Presbyterian-St.Luke's Hospital, Chicago, Illinois
1995	St. Raphael Hospital, New Haven, Connecticut

1995	Cornell University/Memorial Sloan Kettering, New York, New York
1995	Hartford Hospital, Hartford, Connecticut
1996	St. Raphael Hospital, New Haven, Connecticut
1996	Texas A&M University/Scott and White Clinic, Temple, Texas
1996	Universität Bern, Bern, Switzerland
1996	Rush-Presbyterian-St. Luke's Hospital, Chicago, Illinois
1997	Universität Zurich, Zurich, Switzerland
1997	Universität Bern, Bern, Switzerland
2000	University of Wisconsin, Madison Wisconsin
2000	University of Texas, San Antonio, San Antonio, Texas
2001	Hospital for Special Surgery/Cornell University, New York
2003	New York University, New York
2003	University of Toronto, Toronto
2005	SUNY Downstate, Brooklyn, New York
2005	University of New Mexico, Albuquerque, New Mexico
2007	Oregon Health Sciences University, Portland, Oregon
Honors and Awards	<u>:</u>

1968	Alpha Omega Alpha
1975	Fellow, American College of Anesthesiologists
1986	Distinguished Young Physician Award - University of Missouri Medical Alumni Association
1989	Fellow, American College of Critical Care Medicine
1992-Present	Best Doctors in America

2001 Duke Award for Excellence and Innovation in Anesthesia Education,

Society for Education in Anesthesia

2007 Asmund S. Laerdal Memorial Lecture Award, Society of Critical Care

Medicine

2008 Distinguished Service Award, Arizona Society of Anesthesiologists

2014 Citation of Merit, Academy of Anesthesiology

Professional Memberships and Societies:

1975-Present American Society of Anesthesiologists

1975-Present Arizona Society of Anesthesiologists

1975-Present Society of Critical Care Medicine

1975-Present International Anesthesia Research Society

1975-Present American Medical Association

1975-Present Arizona Medical Association

1975-Present Pima County Medical Society

1987-Present Association of University Anesthesiologists

1989-Present American College of Critical Care Medicine

1990-Present Society of Critical Care Anesthesiologists (Founding Member)

1990-Present Academy of Anesthesiology

2010-Present American Heart Association

Service and Outreach:

Extramural:

1980-1983 Sec.-Treas.

Arizona Society of Anesthesiologists

1982-1983	Vice President Arizona Society of Anesthesiologists
1983, 1989-1993	Alt. delegate Arizona Medical Association
1983-1986	Alternate Delegate American Society of Anesthesiologists
1983-1984	Preselect Arizona Society of Anesthesiologists
1984	Delegate Arizona Medical Association
1984-1985	President Arizona Society of Anesthesiologists
1985-1989	Director Arizona Society of Anesthesiologists
1986-2004, 2010-Present	Delegate American Society of Anesthesiologists
1989-1993	Alternate Director Pima County Medical Society
1989-2004	Alternate Director American Society of Anesthesiologists
1990-1991	Director Society of Critical Care Medicine
1991-1996	Member, Anesthesiology Advisory Board Society of Critical Care Medicine
1997	Chair-elect, Anesthesiology Advisory Board Society of Critical Care Medicine
1997-2000	Recording Secretary, Western Caucus American Society of Anesthesiologists

1998 Chair, Anesthesiology Advisory Board

Society of Critical Care Medicine

1998-2005 Executive Committee

Academy of Anesthesiology

2000-2004 Chair, Western Caucus

American Society of Anesthesiologists

2002 Vice President

Academy of Anesthesiology

Pres.-elect

Academy of Anesthesiology

2004 President

Academy of Anesthesiology

2004-2009 Vice President for Scientific Affairs

American Society of Anesthesiologists

Intramural:

1975-1990, Education Committee (Chairman, 1983-90)

1993-1996 Department of Anesthesiology

University of Arizona College of Medicine

1975-1990 Resident Evaluation Committee (Chairman 1983-90)

Department of Anesthesiology

University of Arizona College of Medicine

1975-Present Resident Coordinator, Critical Care Medicine Rotation

Department of Anesthesiology

University of Arizona College of Medicine

1976-2002 ICU Committee (Chair 1976-86)

University of Arizona College of Medicine

1979-Present CPR (Code Blue) Committee

University of Arizona College of Medicine

1982-Present Promotions and Tenure Committee (Chairman 1983-2013)

Department of Anesthesiology

University of Arizona College of Medicine

1983-1990	Housestaff Committee University of Arizona College of Medicine
1983-1990	Coordinator, Resident Recruitment Department of Anesthesiology University of Arizona College of Medicine
1983-1990	Anesthesiology Residency Program Director Department of Anesthesiology University of Arizona College of Medicine
1983-1990	Coordinator, Medical Student Electives Department of Anesthesiology University of Arizona College of Medicine
1985-Present	Peer Review Committee (Chairman, 1985-2013) Department of Anesthesiology University of Arizona College of Medicine
1986-1989	Continuing Medical Education Committee University of Arizona College of Medicine
1987-1990	Trauma Committee University of Arizona College of Medicine
1988-2012	Executive Committee Department of Anesthesiology University of Arizona College of Medicine
1991-Present	Clinical Competence Committee Department of Anesthesiology University of Arizona College of Medicine
1991-1996	OR-PACU Equipment Coordinator Department of Anesthesiology University of Arizona College of Medicine
1991-2007	Program Director, Critical Care Fellowship Department of Anesthesiology University of Arizona College of Medicine
1991-1997	Standardization Committee University of Arizona College of Medicine
1991-1995	Credentials Committee University of Arizona College of Medicine

1991-1993	Case Review Committee, Alternate University of Arizona College of Medicine
1993-1994	Academic Assessment Team, Program for Assessment of Institutional Priorities University of Arizona College of Medicine
1994-1997	University Physician Health Board of Directors
1994-1997	Executive Committee, University Physician Health Board
1994-2010	University Physician Health Finance Committee
1996-2011	Finance Committee Department of Anesthesiology University of Arizona College of Medicine
1996	Committee on Administrative Review of Department of Surgery University of Arizona College of Medicine
1996-1998	University Physician Health Committee on Group Practice Restructuring
1997-2002	College of Medicine Nominations Committee University of Arizona College of Medicine
1999-2002	College of Medicine Promotions and Tenure Committee University of Arizona College of Medicine
2000-Present	Co-Medical Director, Surgical Intensive Care Unit
2003-2009	COM Post-Tenure Review Committee, (Chair)
2005-2007	Medical Executive Committee University Medical Center
2006-2008	University Physician Health Faculty Advisory Council
2013-Present	College of Medicine Committee of Ten University of Arizona College of Medicine

Local, State and Regional Agencies

Respiratory Care Advisory Committee Pima Community College 1975-1990

1979-2008 Annual Meeting Program Committee (Chair 1980, 1985, 1987-05)

Arizona Society of Anesthesiologists

1979-1987 Annual Meeting Organizing Committee (Chair 1980, 1985)

Arizona Society of Anesthesiologists

1984-Present Bylaws Committee (Chair 1984-2002)

Arizona Society of Anesthesiologists

1984-Present Committee on Governmental Affairs

Arizona Society of Anesthesiologists

1988-1993 Committee on Medical Education

Arizona Medical Association

National and International Agencies

1982-1998 DATTA Panel, Council on Scientific Affairs

American Medical Association

1984-1995 Organizing Committee (Chairman 1984-1995)

Wolf Creek Conference on CPR

1985 3rd Conference Meeting Chairman

Wolf Creek Conference on CPR

1985-Present Abstract Reviewer

Society of Critical Care Medicine

1986-1994 Associate Examiner

American Board of Anesthesiology

1986-1988 Consultant, Anesthesiology and Respiratory Devices Panel,

Center for Devices and Radiologic Health

Food and Drug Administration

1991 Consultant, Cardiovascular Study Section

National Institutes of Health

1991-1999 Committee on Refresher Courses (Chair 1999)

American Society of Anesthesiologists

1991-1994 Committee on Acute Medicine

American Society of Anesthesiologists

Charles Otto, M.D., F.C.C Curriculum Vitae Revised 1/2016	C.M.
1991-1994	Task Force on Research Needs in Critical Care American College of Critical Care Medicine
1991-1994	Task Force on Manpower Needs for Critical Care American College of Critical Care Medicine
1991-1994	Task Force on Administration and Organization American College of Critical Care Medicine
1992-1999	Liaison with American Society of Anesthesiologists Society of Critical Care Medicine
1992-1993	Committee on Manpower American Society of Anesthesiologists
1992-1993	Special Site Reviewer, National Institute of Neurological Disorders and Stroke National Institutes of Health
1993-1996	Committee on Publications Society of Critical Care Anesthesiologists
1993-1994	Special Review Panel, National Institute of Neurological Disorders and Stroke National Institutes of Health
1993-1994	Panel Judge for Anesthesiology Specialty Award Society of Critical Care Medicine
1994	Cardiovascular Study Section, Ad hoc Review Group (Chair) National Institutes of Health
1994-2005, 2009-Present	Committee on Bylaws American Society of Anesthesiologists
1994,1996, 2000,2004	Reference Committee, House of Delegates (Chair 2004) American Society of Anesthesiologists
1995-2010	ACLS Subcommittee, Committee on Cardiopulmonary Resuscitation and Emergency Cardiac Care American Heart Association
1995-2006	Senior Associate Examiner

American Board of Anesthesiology

Committee on Scientific Papers (Chair 2000)

American Society of Anesthesiologists

Charles Otto, M.D., F.C.C.M.

1999-2000

2000-2009	Annual Meeting Resident Scholars Program Foundation for Anesthesia Education and Research
2000-2006	Task Force on ASA's 100 th Anniversary American Society of Anesthesiologists
2000-2003	Section on Education and Research (Vice Chair) American Society of Anesthesiologists
2000-2003	Ad Hoc Exhibitors Advisory Committee American Society of Anesthesiologists
2000-2001	Section on Annual Meeting (Vice Chair) American Society of Anesthesiologists
2001-2005	Education Committee
2001 2002	Foundation for Anesthesia Education and Research
2001-2003	Committee on CME Strategic Planning American Society of Anesthesiologists
2001-2002	Section on Annual Meeting (Chair)
	American Society of Anesthesiologists
2002-2005	Task Force on Annual Meeting Opportunities American Society of Anesthesiologists
2003-2009	Committee on Professional Education Oversight(Chair 2004-09) American Society of Anesthesiologists
2003-2004	Section on Society Subspecialties (Chair) American Society of Anesthesiologists
2004-2009	Board of Trustees Wood Library Museum
2004-2005	Task Force on Annual Meeting Honoraria (Chair) American Society of Anesthesiologists
2005-2009	Committee on Annual Meeting Oversight (Exec. Comm. 2005-09) American Society of Anesthesiologists
2005-2006	Task Force on Katrina Disaster Relief (Chair) American Society of Anesthesiologists

2006-2007 Ad Hoc Committee on CME Approval Process American Society of Anesthesiologists **Board of Trustees** 2007-Present Anesthesia Foundation 2008-2009 Ad Hoc Committee on Droperidol American Society of Anesthesiologists 2009-2012 WFSA Advisory Group World Federation of Societies of Anesthesiologists 2010-2014 Secretary Anesthesia Foundation 2010 Ad Hoc Committee on Future Land Use American Society of Anesthesiologists 2010 **CPR Guidelines Writing Group** American Heart Association 2010 Consensus on Science Writing Group International Liaison Committee on Resuscitation 2011-Present Annual Meeting Site Selection Committee Academy of Anesthesiology 2012-Present **Constitution Committee** World Federation of Societies of Anesthesiologists 2013-2014 Ad Hoc Committee on Related Organizations American Society of Anesthesiologists 2014-Present Committee on Governance Effectiveness and Efficiencies American Society of Anesthesiologists President 2014-Present Anesthesia Foundation 2014-2015 **CPR Guidelines Writing Group** American Heart Association

Resident Lectures

8/2014 Ventilation Strategies for Restrictive Lung Disease (Including ARDS)

Department of Anesthesiology

University of Arizona College of Medicine

Tucson, AZ

2/2015 The Importance of Uninterrupted Chest Compressions During CPR

Department of Anesthesiology Grand Rounds University of Arizona College of Medicine

Tucson, AZ

8/2015 Respiratory Physiology: Dead Space, Shunt, and VQ Mismatch

Department of Anesthesiology

Tucson, AZ

Invited Scientific and Clinical Presentations (1996 to date)

6/1996 Regional Refresher Course

America Society of Anesthesiologists

San Francisco, CA

11/1996 Swiss Society of Anesthesiologists

Interlaken, Switzerland

2/1997 Moderator, CPR Papers,

Society of Critical Care Medicine Annual Meeting

San Diego, CA

2/1997 Panel Lecture: Vital Issues in CPR Today

Society of Critical Care Medicine Annual Meeting

San Diego, CA

9/1997 Texas Society of Anesthesiologist Annual Meeting

Dallas, TX

10/1997 Refresher Course Lecture

American Society Anesthesiology Annual Meeting

San Diego, CA

10/1997 Vienna International Congress on Anesthesiology & Intensive Care

Medicine

Vienna, Austria

6/1998 Lecture, DNR Orders in the OR, Loss Prevention Education Program

Daughters of Charity National Health System

Tucson, AZ

9/1998 V Simposia Internacional Bianual de Anesthesiologia

Monterrey, N.L., Mexico

10/1998 Refresher Course Lecture

American Society of Anesthesiologists

Orlando, FL

1/1999 Regional Refresher Course

American Society of Anesthesiologists

Phoenix, AZ

1/1999 Moderator, Panel on Perioperative Critical Care

Society of Critical Care Medicine

San Francisco, CA

9/1999 Presenter/Panelist on 1) Airway adjuncts during CPR, 2) Vasopressor

therapy during CPR and 3) Post-resuscitation therapy

Evidence Evaluation Conference, CPR Guideline Revisions, American

Heart Association

Dallas TX

10/1999 Refresher Course Lecture

American Society of Anesthesiologists

Dallas, TX

1/2000 Regional Refresher Course

American Society of Anesthesiologists

San Diego, CA

2/2000 Presenter/Panelist

International Guidelines 2000 Conference on ECC and CPR, American

Heart Association

Dallas, TX

10/2000 Minnesota Society of Anesthesiologists Annual Spring Meeting

Minneapolis, MN

10/2000 Refresher Course Lecture

American Society of Anesthesiologists

San Francisco, CA

11/2003

Lecturer

Toronto, Ontario

10/2000 Panel Lecture: Vasopressor Therapy American Society of Anesthesiologists San Francisco, CA 4/2001 Lecturer, Postgraduate Symposium University of Kansas Kansas City, MO 6/2001 Panel Moderator, Wolf Creek VI Conference on CPR Palm Springs, CA 10/2001 Refresher Course Lecture American Society of Anesthesiologists New Orleans, LA 2/2002 Alabama Society of Anesthesiologists/University of Alabama Meeting Birmingham, AL 10/2002 Refresher Course Lecture American Society of Anesthesiologists Orlando, FL 6/2003 Panel Moderator Wolf Creek VII Conference on CPR Palm Springs, CA Refresher Course Lecture 10/2003 American Society of Anesthesiologists San Francisco, CA 10/2003 ACLS Workshop Lecture: Pharmacologic Management American Society of Anesthesiologists San Francisco, CA 11/2003 Mendelson Lecture: The Scientific Basis of Reanimation University of Toronto Toronto, Ontario

University of Toronto Continuing Education Meeting

3/2004 Lecturer

Whistler Winter Anesthesia Conference

Whistler, British Columbia

10/2004 Refresher Course Lecture

American Society of Anesthesiologists

Las Vegas, NV

10/2004 ACLS Workshop Lecture: Pharmacologic Management

American Society of Anesthesiologists

Las Vegas, NV

1/2005 Airway Management: ETT vs. LMA: International Consensus Conference

on Science/International Liaison Committee on Resuscitation

Dallas, TX

6/2005 Tucson Initiative in Cardiocerebral Resuscitation

Arizona Society of Respiratory Care Annual Meeting

Tucson, AZ

10/2005 Refresher Course Lecture

American Society of Anesthesiologists

Atlanta, GA

10/2005 ACLS Workshop Lecture: Pharmacologic Management

American Society of Anesthesiologists

Atlanta, GA

9/2006 ASA Update Lecture

New England Society of Anesthesiologists

Lennox, MA

10/2006 Refresher Course Lecture

American Society of Anesthesiologists

Chicago, IL

2/2007 Asmund S. Laerdal Memorial Lecture

Society of Critical Care Medicine

Orlando, FL

2/2007 Lecturer

Whistler Winter Anesthesia Symposium

Whistler, British Columbia

Charles Otto, M.D., F.C.C.M. Curriculum Vitae

Revised 1/2016

5/2007 Lecturer

Oregon Society of Anesthesiologists Spring Meeting

Gleneden Beach, Oregon

10/2007 Refresher Course Lecture

American Society of Anesthesiologists

Chicago, IL

12/2007 Lecturer

New York Society of Anesthesiologists Post Graduate Assembly

New York, NY

2/2008 Lecturer

Arizona Society of Anesthesiologists Annual Meeting

Scottsdale, AZ

4/2008 Lecturer

Iowa Society of Anesthesiologists Annual Meeting

Des Moines, Iowa

5/2008 Panelist

Association of University Anesthesiologists Annual Meeting

Durham, NC

6/2008 J. Gerard Converse, M.D. Memorial Lecturer

Florida Society of Anesthesiologists Annual Meeting

Palm Beach, FL

10/2008 Lecturer

Central Line Sepsis Summit

Washington, DC

10/2008 Refresher Course Lecture

American Society of Anesthesiologists

Orlando, FL

1/2009 Panelist

American Society of Anesthesiologists Practice Management Conference

Phoenix, AZ

2/2009 Lecturer

Indiana Society of Anesthesiologists Annual Meeting

Indianapolis, IN

2/2009 Lecturer

University of Alabama at Birmingham Anesthesiology Review Course

Birmingham, AL

2/2009 Lecturer

St. Raphael Hospital Department of Anesthesiology Continuing Education

Series

New Haven, CT

3/2009 Panelist

International Liaison Committee on Resuscitation Conference

Osaka, Japan

4/2009 Lecturer

Colorado Society of Anesthesiologists Annual Spring Meeting

Colorado Springs, CO

2/2010 Presenter and Panelist

C2010 Conference on Consensus on CPR & ECC Science with Treatment

Recommendations

Dallas, TX

3/2011 Lecturer

Columbia Society of Anesthesiologists Biannual Meeting

Medellin, Columbia

2/2012 Lecturer

Pinnacle Partners in Medicine

Dallas, TX

11/2014 Lecturer

Minnesota Society of Anesthesiologists

Minneapolis, MN

Research Grants (Principle or Co-investigator)

Influence of preoperative medication on arrhythmias during the induction of anesthesia. *McNeil Laboratories*. \$7,500 (with RW Yakaitis, M.D., and CD Blitt, M.D.)

1979 Comparison of the effects of dopamine, dobutamine, and epinephrine during cardiopulmonary resuscitation. *Arnar-Stone Laboratories*. \$6,750 (with RW Yakaitis, M.D.)

1980 Ischemic spontaneous ventricular fibrillation: a new model for the study of cardiopulmonary resuscitation. *American Society of Anesthesiologists Research Fund and Parker B. Francis Foundation*. \$4,400.

- 1981 Clinical evaluation of a new disposable pressure transducer. *Cobe Laboratories*. \$6,985 (with E.Furst, Ph.D.)
- Evaluation of high frequency jet ventilation for application in the operating room. *Healthdyne, Inc.* \$27,500 (with JM Calkins, M.D., Ph.D.)
- 1981 Incidence of peri-induction arrhythmias with and without laryngotracheal etidocaine. *Astra Pharmaceuticals.* \$13,700 (with CD Blitt, M.D.)
- High frequency jet ventilation in idiopathic respiratory distress syndrome. *Air Shields*. \$15,000 (with JM Calkins, M.D., Ph.D.)
- 1981 Evaluation of disposable pressure transducer. *Sorenson Research Company*. \$5,555 (with E. Furst, Ph.D.)
- 1984 Effects on gas exchange of high frequency jet ventilation in acute unilateral lung injury. *Arizona Lung Association.* \$6497 (with SF Quan,M.D.)
- 1986 Cardiopulmonary Resuscitation Research Center establishment grant. *Flinn Foundation*. \$368,281 (with GA Ewy, M.D.)
- 1987 CO2 Production and CNS Acidosis During Cardiac Arrest. *American Heart Association, Arizona Affiliate*, \$25,000. (with AB Sanders, M.D.)
- 1991 Comparison of High and Standard Dose Epinephrine in Swine Cardiac Arrest: 24 Hour Survival and Neurological Outcome. *American Heart Association, Arizona Affiliate*, \$22,000 (with Robert A. Berg, M.D.)
- 1993 Standard versus High Dose Epinephrine in Asphyxial Swine Cardiac Arrest: Survival and Neurological Outcome. *American Heart Association, Arizona Affiliate*, \$25,000 (with Robert A. Berg, M.D.)
- Phase II, Double-blind, Randomized, Placebo-controlled Study to Evaluate the Safety and Efficacy of 3 Different Single Doses of Ro 45-2081 in the Treatment of Severe Sepsis/Septic Shock. F. Hoffmann-LaRoche, Ltd., \$205,200
- 1996 Phase III, Double-blind, Randomized, Place-controlled Study to Evaluate the Efficiency and Safety of a Single Dose of Ro 45-2081 in the Treatment of Severe Sepsis and Early Septic Shock. *F. Hoffman-LaRoche, Ltd.*, \$132,120
- 1999 Phase II Study to Determine the Efficacy and Safety of LY315920 in Patients with Severe Sepsis. Eli Lilly and Company, \$66,300

Editorial Activities

Associate Editor, Survey of Anesthesiology (1985-97)

Editorial Board, *Literature Scan: Anesthesiology* (1986-92)

Consulting Reviewer for Critical Care Medicine, Heart and Lung, Anesthesiology, Annals of Emergency Medicine, Anesthesia and Analgesia, Chest, Archives of Internal Medicine, New England Journal of Medicine, Journal of the American Medical Association, Medical Letter, Journal of Cardiothoracic and Vascular Anesthesia

Guest Co-Editor for Symposium Issue of *Critical Care Medicine* on 3rd Wolf Creek Conference on CPR, Vol. 13, No 11, November 1985

Consultant, AMA Department of Drugs for AMA Drug Evaluations

Editorial Board, Journal of Cardiothoracic and Vascular Anesthesia (1995-06)

Associate Editor, ASA Refresher Courses in Anesthesiology (1997-2003)

Publications

Chapters and Reviews

- 1. Otto CW: Respiratory Intensive Care in Clinical Anesthesia Procedures of the Massachusetts General Hospital, Lebowitz, PW, (ed). Little, Brown and Company, Boston, 1978. pp 384-414
- 2. Otto CW: Newer Drugs in the Therapy of Bronchospasm. Weekly Anesthesiology Update, Vol. 2, Lesson 8, Princeton, NJ, 1978, pp 1-8
- 3. Otto CW: Respiratory Morbidity and Mortality. In Anesthetic Side Effects and Complications, Owens, WD (ed). *International Anesthesiology Clinics* 18:85-106, 1980
- 4. Otto CW: The Experts Opine: High Frequency Ventilation. Survey of Anesthesiology 25:127-128, 1981
- 5. Otto CW: Postoperative Intensive Care in *Cardiac Anesthesia*, Conahan TJ (ed). Addison-Wesley, Menlo Park, CA, 1981, pp 304-327
- 6. Quan SF, Calkins JM, Waterson CK, Otto CW: High Frequency Ventilation--Current Concepts. *Arizona Medicine* 40:319-324, 1983
- 7. Otto CW: Anesthesia Ventilators: Special Requirements in Contemporary Anesthesia Practice Vol VIII; *Future Anesthesia Delivery Systems*. Brown BR, Calkins JM, Saunders RJ (eds). F.A. Davis Company, Philadelphia, PA. 1984. pp 165-173
- 8. Otto CW: Central Venous Pressure Monitoring. in *Monitoring Anesthesia and Critical Care Medicine*. Blitt CD (ed). Churchill-Livingstone, New York. 1985, pp 121-165
- 9. Otto CW: Blood Gas and pH Abnormalities. In *Surgical Decision Making*, 2nd Ed. Norton LW, Eiseman B (eds). W.B.Saunders Company, Philadelphia. 1986. pp 2-3
- 10. Otto CW: Ventilatory Management in the Critically III. in Emergency Department Management of Critical Illness, Abraham E (ed). *Emergency Medicine Clinics* 4:635-654, 1986
- 11. Otto CW: Update on Cardiopulmonary Resuscitation. in *ASA Regional Refresher Courses*. American Society of Anesthesiologists, Chicago. 1988, pp. 109-1 109-8
- 12. Otto CW: Assessment and Treatment of Postoperative Pulmonary Complications. In *ASA Regional Refresher Courses*. American Society of Anesthesiologists, Chicago. 1988, pp. 204-1 204-8

- 13. Otto CW: Tracheal Intubation. in *General Anaesthesia*, 5th edn. Nunn JF, Utting JE, Brown BR, (eds). Butterworth, London 1989, pp. 512 539
- 14. Otto CW: Cardiopulmonary Resuscitation of the Adult. in *General Anaesthesia*, 5th edn. Nunn JF, Utting JE, Brown BR, (eds). Butterworth, London. 1989 pp. 1331 1348
- 15. Otto CW: Central Venous Pressure Monitoring. in *Monitoring in Anesthesia and Critical Care Medicine*, 2nd edn. Blitt CD (ed). Churchill-Livingstone, New York. 1989, pp. 169-210.
- 16. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. Seminars in Anesthesia 9:169-181,1990
- 17. Otto CW: Cardiopulmonary Resuscitation in *Critical Care Practice*. Hoyt JW, Tonneson AS, Allen J, (eds). W. B. Saunders, Philadelphia. 1991, pp. 427 438
- 18. Otto CW: Cardiopulmonary Resuscitation. in *Current Practice in Anesthesiology*. Rogers MC (ed). Mosby-Year Book, St. Louis. 1990, pp.510-515
- 19. Otto CW: Basic and Advanced Life Support. Current Opinion in Anaesthesiology. 5:245-249, 1992
- 20. Otto CW: Current Concepts in Cardiopulmonary Resuscitation in 1993 Annual Refresher Course Lectures. American Society of Anesthesiologists, Chicago. 1993, pp. 124-1 124-7
- 21. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. in *ASA Regional Refresher Courses*. American Society of Anesthesiologists, Chicago. 1994, pp. 109-1 109-7
- 22. Otto CW: Postoperative Pulmonary Complications. in *ASA Regional Refresher Courses*. American Society of Anesthesiologists, Chicago. 1994, pp 204-1 204-7
- 23. Otto CW: Current Concepts in Cardiopulmonary Resuscitation in 1994 Annual Refresher Course Lectures. American Society of Anesthesiologists, Chicago. 1994, pp 261-1 261-7
- 24. Otto CW: Central Venous Pressure Monitoring. in *Monitoring in Anesthesia and Critical Care Medicine*, 3nd edn. Blitt CD, Hines RL (eds). Churchill-Livingstone, New York 1995, pp. 173-212
- 25. Otto CW: Cardiopulmonary Resuscitation. in *Anesthesiology Residents Guide to Learning in the Intensive Care Unit*. Dubrin CG (ed). American Society of Critical Care Anesthesiologists. Park Ridge, IL. 1995, pp 19-24
- 26. Otto CW: Management of Cardiac and Respiratory Arrest. in Wylie and Churchill-Davidson's *A Practice of Anaesthesia*, 6th edn. Healy TEJ, Cohen PJ (eds). Edward Arnold, London. 1995, pp 1409-1425

- 27. Otto CW: Updated Concepts in Cardiopulmonary Resuscitation in 1995 Annual Refresher Course Lectures. American Society of Anesthesiologists. Chicago. 1995. pp. 521-1 521-7
- 28. Otto CW: Current Concepts in Cardiopulmonary Resuscitation-Physiology. In *ASA Regional Refresher Courses*. American Society of Anesthesiologists. Chicago. 1996. pp 109-1 109-7
- 29. Otto CW: Current Concepts in Cardiopulmonary Resuscitation-Pharmacology. In 1996 Annual Refresher Course Lectures. American Society of Anesthesiologists. Chicago. 1996. pp. 203-1 203-7
- 30. Otto CW: Cardiopulmonary Resuscitation in *Clinical Anesthesia*, 3rd edn. Barash PG, Cullen BF, Stoelting RK (eds). Lippencott-Raven, Philadelphia. 1996. pp. 1389-1410
- 31. Otto CW: Resuscitation: Management of Acute Ventilatory and Cardiac Arrest. in *International Practice of Anesthesia*. Prys-Roberts C, Brown BR (eds). Butterworth-Heinemann, Oxford. 1996. pp. 2/128/1-21
- 32. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. in *Critical Care Medicine: Perioperative Management*. Murray MJ, Coursin DB, Pearl RB, Prough DS (eds). Lippencott-Raven, Philadelphia. 1997 pp. 387-398
- 33. Otto CW: Clinical Utilization of Pacemakers and Defibrillators for the Anesthesiologist. In 1997 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 1997 pp. 216-1 216-7
- 34. Otto CW: Cardiopulmonary Resuscitation in *Principles and Practice of Anesthesiology*. Longnecker DE, Tinker JH, Morgan GE (eds). Mosby-Yearbook, St. Louis. 1998. Pp. 647-679
- 35. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In 1998 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 1998 pp. 512-1 512-7
- 36. Otto CW: Cardiopulmonary Resuscitation: Current Status. Seminars in Anesthesia, Perioperative Medicine and Pain. Vol. 18: 71-80, 1999
- 37. Otto CW: Cardiopulmonary Resuscitation. In *Anesthesiology Residents' Guide to Learning in the Intensive Care Unit*. Weston LA and Dorbin CG (eds). American Society of Critical Care Anesthesiologists. Park Ridge, IL. 1999, pp. 17-22
- 38. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In ASA Refresher Courses in Anesthesiology. Schwartz AJ (ed.) Lippincott Williams and Wilkins, Hagerstown, MD. Vol. 27:133-142, 1999
- 39. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In 1999 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 1998 pp. 211-1 211-7

- 40. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In 2000 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2000 pp. 261-1 261-7
- 41. Otto CW: Cardiopulmonary Resuscitation in *Clinical Anesthesia*, 4th edn. Barash PG, Cullen BF, Stoelting RK (eds). Lippencott William & Wilkins, Philadelphia. 2001, pp 1485-1506
- 42. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In 2001 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2001 pp. 271-1 271-7
- 43. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In *Critical Care Medicine: Perioperative Management*, 2ndedn. Murray MJ, Coursin DB, Pearl RB, Prough DS (eds). Lippencott William & Wilkins, Philadelphia. 2002, pp 363-373
- 44. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In 2002 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2002 pp. 133-1 133-7
- 45. Otto CW: Management of Cardiac and Respiratory Arrest. In Wylie and Churchill-Davidson's *A Practice of Anaesthesia*, 7th edn. Healy TEJ, Knight P (eds). Edward Arnold, London. 2003, pp 1199-1211
- 46. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In 2003 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2003 pp. 131-1 131-7
- 47. Otto CW: Current Concepts in Cardiopulmonary Resuscitation. In 2004 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2004 pp. 144-1 144-7
- 48. Otto CW: New Concepts in Cardiopulmonary Resuscitation. In 2005 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2005 pp. 107-1 107-7
- 49. Otto CW: Cardiopulmonary Resuscitation in *Clinical Anesthesia*, 5th edn. Barash PG, Cullen BF, Stoelting RK (eds). Lippencott William & Wilkins, Philadelphia. 2006, pp 1499-1520
- 50. Otto CW: Is There Anything New in Resuscitation. In 2006 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2006 pp. 130-1 130-7
- 51. Otto CW: New Approaches to Resuscitation. In 2007 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2007 pp. 107-1 107-5
- 52. Otto CW: Cardiopulmonary Resuscitation in *Principles and Practice of Anesthesiology*. Longnecker DE, Newman MF, Zapol, W, Brown D (eds). McGraw-Hill, New York 2008, pp 1873-1890
- 53. Otto CW: New Approaches to Resuscitation. In 2008 Annual Refresher Course Lectures, American Society of Anesthesiologists. Chicago. 2008 pp. 129-1 129-5

- 54. Otto CW: Cardiopulmonary Resuscitation in *Clinical Anesthesia*, 6th edn. Barash PG, Cullen BF, Stoelting RK, Cahalan MK, Stock MC (eds). Lippencott William & Wilkins, Philadelphia. 2009, pp 1532-1558
- 55. Otto CW: Cardiopulmonary Resuscitation in *Anesthesiology*, 2nd edn.. Longnecker DE, Newman MF, Zapol, W, Brown D (eds). McGraw-Hill, New York 2012, pp 1423-1436
- 56. Otto CW: Cardiopulmonary Resuscitation in *Clinical Anesthesia*, 7th edn. Barash PG, Cullen BF, Stoelting RK, Cahalan MK, Ortega R, Stock MC (eds). Lippencott William & Wilkins, Philadelphia. 2013, pp 1672-1699
- 57. Otto CW: Cardiopulmonary Resuscitation in *Handbook of Clinical Anesthesia*, 7th edn. Barash PG, Cullen BF, Stoelting RK, Cahalan MK, Ortega R, Stock MC (eds). Lippencott William & Wilkins, Philadelphia. 2013, pp 982-1001
- 58. Otto CW: Cardiopulmonary Resuscitation in *Anesthesiology*, 3rd edn.. Longnecker DE, Newman MF, Zapol, W, Brown D (eds). McGraw-Hill, New York 2017, (In Press)
- 59. Otto CW: Cardiopulmonary Resuscitation in *Clinical Anesthesia*, 8th edn. Barash PG, Cullen BF, Stoelting RK, Cahalan MK, Ortega R, Stock MC (eds). Lippencott William & Wilkins, Philadelphia. 2017, (In Press)

Research Articles, Editorials, Scholarly Articles

- 60. Otto CW, Wall CL: Total Spinal Anesthesia: A Rare Complication of Intrathoracic Intercostal Nerve Block. *Ann Thor Surg* 22:289-292, 1976
- 61. Yakaitis RW, Otto CW, Blitt CD: Relative Importance of Alpha and Beta Receptors During Resuscitation. *Critical Care Medicine* 7:293-296, 1979
- 62. Yakaitis RW, Ewy GA, Otto CW, Taren DL, Moon TE: Influence of Time and Therapy on Ventricular Defibrillation in Dogs. *Critical Care Medicine* 8:157-163, 1980
- 63. Otto CW, Yakaitis RW, Blitt CD: Mechanism of Action of Epinephrine in Resuscitation from Asphyxial Arrest. A Brief Report. *Critical Care Medicine* 9:364-365. 1981
- 64. Otto CW, Yakaitis RW, Redding JS, Blitt CD: Comparison of Dopamine, Dobutamine and Epinephrine in CPR. A Brief Report. *Critical Care Medicine* 9:366, 1981
- 65. Hameroff SR, Otto CW, Kanel J, Weinstein PR, Blitt CD: Acute Cardiovascular Effects of Dimethylsulfoxide (DMSO). *Critical Care Medicine* 9:855-857, 1981
- 66. Blitt CD, Carlson GL, Rolling GD, Hameroff SR, Otto CW: Comparative Evaluation of Pretreatment with Nondepolarizing Neuromuscular Blockers Prior to the Administration of Succinylcholine. *Anesthesiology* 55:687-689, 1981

- 67. Otto CW, Yakaitis RW, Blitt CD: Mechanism of Action of Epinephrine in Resuscitation from Asphyxial Arrest. *Critical Care Medicine* 9:321-324, 1981
- 68. Ewy GA, Dahl CF, Zimmerman M, Otto CW: Ventricular Fibrillation Masquerading as Ventricular Standstill. *Critical Care Medicine*, 9:841-844, 1981
- 69. Otto CW, Yakaitis RW, Redding JS, Blitt CD: Comparison of Dopamine, Dobutamine and Epinephrine in Cardiopulmonary Resuscitation. *Critical Care Medicine* 9:640-643, 1981
- 70. Blitt CD, Carlson GL, Wright WR, Otto CW: J-wire vs Straight Wire for Central Venous System Cannulation via the External Jugular Vein. *Anesth & Analg* (Cleve) 61:536-537, 1982
- 71. Quan SF, Otto CW, Calkins JM, Hameroff SR, Conahan TJ, Waterson CK: High Frequency Ventilation A Promising New Method of Ventilation. *Heart & Lung* 12:152-155, 1983
- 72. Otto CW, Quan SF, Conahan TJ, Calkins JM, Waterson CK, Hameroff SR: Hemodynamic Effects of High Frequency Jet Ventilation. *Anesth & Analg* (Cleve) 62:298-304, 1983
- 73. Otto CW, Calkins JM, Quan SF, Conahan TJ, Waterson CK, Hameroff SF: Cardiovascular Consequences of High Frequency Ventilation in *Perspectives in High Frequency Ventilation*, Sheck PA, Smith RB, Sjostrand U (eds). Martinus Nijhoff, The Hague, The Netherlands, 1983. pp 115-121
- 74. Calkins JM, Waterson CK, Quan SF, Militzer HW, Conahan TJ, Otto CW, Hameroff SR: Effects of High Frequency Jet Ventilation Design and Operational Variables on Arterial Blood Gas Tensions in *Perspectives in High Frequency Ventilation*, Sheck PA, Smith RB, Sjostrand U (eds). Martinus Nijhoff, The Hague, The Netherlands, 1983. pp 71-80
- 75. Hameroff SR, Otto CW, Kanel J, Weinstein PR, Blitt CD: Acute Cardiovascular Effects of Dimethylsulfoxide. *Ann NY Acad Sciences*. 411:94-99, 1983
- 76. Otto CW, Yakaitis RW, Ewy GA: Spontaneous Ischemic Ventricular Fibrillation in Dogs: A New Model for the Study of Cardiopulmonary Resuscitation. *Critical Care Medicine* 11:883-887, 1983
- 77. Otto CW, Quan SF, Calkins JM, Waterson CK, Hameroff SR: Mean Airway Pressure and Hemodynamic Effects Letter. *Anesthesiology*. 60:74-75, 1984
- 78. Clochesy JM, Hinshaw AS, <u>Otto CW</u>: Effects of Change of Position on Pulmonary Artery and Pulmonary Capillary Wedge Pressures in Mechanically Ventilated Patients. *NITA* 7:223-225, 1984
- 79. Quan SF, Calkins JM, Waterson CK, Conahan TJ, Hameroff SR, Otto CW: Airway Movement in Dogs During High Frequency Jet Ventilation. *Critical Care Medicine* 12:452-456, 1984

- 80. Quan SF, Militzer HW, Calkins JM, Sobonya RE, Waterson CK, Otto CW, Conahan TJ: A Comparison of High Frequency Jet Ventilation with Conventional Mechanical Ventilation in Saline Lavaged Rabbits. *Critical Care Medicine* 12:759-763, 1984
- 81. Otto CW, Yakaitis RW: The Role of Epinephrine in CPR A Reappraisal. *Annals of Emergency Medicine* 13:840-843, 1984
- 82. Otto CW, Yakaitis RW, Ewy GA: The Effect of Epinephrine on Defibrillation in Ischemic Ventricular Fibrillation. *American Journal of Emergency Medicine* 3:285-291, 1985
- 83. Brillman JC, Sanders AB, Otto CW, Fahmy HA, Bragg B, Ewy GA: Outcome of Resuscitation from Fibrillatory Arrest Using Epinephrine and Phenylephrine in Animals. *Critical Care Medicine* 13:912-13,1985
- 84. Otto CW: The Scientific Basis of Reanimation Revisited. Editorial. *Critical Care Medicine* 13:881, 1985
- 85. Sanders AB, Kern KB, Raessler KL, Otto C, Ewy GA: More on Open-Chest Cardiac Massage After Cardiac Arrest. Letter. *New England Journal of Medicine* 315:968, 1986
- 86. Otto CW: The Use of Catecholamines, Pressor Agents, Digitalis and Corticosteroids in CPR and ECC: Report of the Cardiovascular Pharmacology II Panel. *Circulation* 74 (suppl IV), IV-80-IV-85, 1986
- 87. Brillman JC, Sanders AB, Otto CW, Fahmy HA, Bragg S, Ewy GA: A Comparison of Epinephrine and Phenylephrine for Resuscitation and Neurologic Outcome of Cardiac Arrest in Dogs. *Annals of Emergency Medicine* 16:11-17,1987.
- 88. Calkins JM, Waterson CK, Quan SF, Militzer HW, Otto CW, Conahan TJ, Hameroff SR: Effect of Alterations in Frequency, Inspiratory Time, and Airway Pressure on Gas Exchange during High Frequency Jet Ventilation in Dogs with Normal Lungs. *Resuscitation* 15:87-96, 1987
- 89. Barrowcliffe MP, Otto CW, Jones JG: Pulmonary Clearance of 99mTcDTPA: The Influence of Background Activity. *Journal of Applied Physiology*. 64(3):1045-1049,1988
- 90. Sanders AB, Otto CW, Kern KB, Rogers JN, Perrault P, Ewy GA: Acid-Base Balance in a Canine Model of Cardiac Arrest. *Annals of Emergency Medicine*. 17:667-671, 1988
- 91. Sanders AB, Kern KB, Otto CW, Milander M, Ewy GA: End-Tidal Carbon Dioxide Monitoring During Cardiopulmonary Resuscitation: A Prognostic Indicator For Survival. *JAMA* 262:1347-1351, 1989
- 92. Sanders AB, Kern KB, Fonken S, Otto CW, Ewy GA: The Role of Bicarbonate and Fluid Loading in Improving Resuscitation from Prolonged Cardiac Arrest with Rapid Manual Chest Compression CPR. *Annals of Emergency Medicine*, 19:1-7, 1990

- 93. Sanders AB, Kern KB, Otto CW, Milander MM, Ewy GA: End-Tidal PCO₂ During Cardiopulmonary Resuscitation. (Letter). *JAMA* 263:814-815, 1990
- 94. Daller JA, Erstad B, Rosado L, <u>Otto CW</u>, Putnam CW: Aminophylline Antagonizes the Neuromuscular Blockade of Pancuronium but not Vecuronium. *Critical Care Medicine*, 19:983-985, 1991
- 95. Kern KB, Sanders AB, Raife J, Milander MM, Otto CW, Ewy GA: A Study of Chest Compression Rates During Cardiopulmonary Resuscitation in Humans: The Importance of Rate-Directed Chest Compressions. *Arch Intern Med* 152:145-149, 1992
- 96. Chase PB, Kern KB, Sanders AB, Otto CW, Ewy GA: Effects of Graded Doses of Epinephrine on Both Noninvasive and Invasive Measures of Myocardial Perfusion and Blood Flow during Cardiopulmonary Resuscitation. *Critical Care Medicine*. 21:413-419, 1993
- 97. Quan SF, Otto CW: Ultra High Frequency Ventilation Nouvelle Ventilation or Just Old Hash. *Chest.* 103:1313-14, 1993
- 98. Berg RA, Kern KB, Sanders AB, Otto CW, Hilwig RW, Ewy GA: Bystander Cardiopulmonary Resuscitation: Is Ventilation Necessary. *Circulation*. 88:1907-15, 1993
- 99. Berg RA, Otto CW, Kern KB, Sanders AB, Hilwig RW, Hansen KK, Ewy GA: High Dose Epinephrine Results in Greater Early Mortality After Resuscitation from Prolonged Cardiac Arrest in Pigs: A Prospective Randomized Study. Critical Care Medicine 22:282-290, 1994
- 100. Berg RA, Wilcoxson D, Hilwig RW, Kern KB, Sanders AB, Otto CW, Eklund DK, Ewy GA. The Need for Ventilatory Support During Bystander Cardiopulmonary Resuscitation *Ann Emerg Med.* 26:342-350, 1995
- 101. Otto CW: Vasopressor Therapy for ACLS. In Current Concepts in Cardiac Resuscitation. Rothenberg DM. (ed). *Anesthesiology Clinics of North America*. 13:835-847, 1995
- 102. Otto CW: Active Compression-Decompression CPR: The Latest "New CPR"? (editorial) J. Cardiothoracic Vasc Anesth 10:175-177, 1996
- 103. Bircher N, Otto CW, Babbs C, Barslow A, et al: Future Directions for Resuscitation Research II. External Cardiopulmonary Resuscitation Basic Life Support. *Resuscitation* 32: 63-75, 1996
- 104. Berg RA, Otto CW, Kern KB, Hilwig RW, Sanders AB, Henry CP, Ewy GA: A Randomized, Blinded Trial of High-Dose Epinephrine Versus Standard-dose Epinephrine in a Swine Model of Pediatric Asphyxial Cardiac Arrest. *Critical Care Medicine* 24: 1695-1700, 1996

- 105. Kern KB, Figge G, Hilwig RW, Sanders AB, Berg RA, Otto CW, Ewy GA: Active Compression-Decompression versus Standard Cardiopulmonary Resuscitation in a Porcine Model: No Improvement in Outcome. *Am. Heart J* 132:1156-62, 1996
- 106. Berg RA, Kern KB, Otto CW, Samson RA, Sanders AB, Ewy GA: Ventricular Fibrillation in a Swine Model of Acute Pediatric Asphyxial Cardiac Arrest. *Resuscitation* 33:147-153, 1996
- 107. Berg RA, Kern KB, Hilwig RW, Berg MD, Sanders AB, Otto CW, Ewy GA: Assisted Ventilation Does Not Improve Outcome in a Porcine Model of Single-Rescuer Bystander CPR. Circulation 95:1635-41, 1997
- 108. Abraham E, Glauser MP, Butler T, Lew D, Gelmont D, Laterne PF, Kudsk K, Bruining HA, Otto CW, Tobin E, Zwingelstein C, Lesslaver W, Leighton A: p55 Tumor Necrosis Factor Receptor Fusion Protein in the Treatment of Patients with Severe Sepsis and Septic Shock: A Placebo Controlled Randomized, Double-Blind, Multi-Center Clinical Trial. *JAMA* 277:1531-1538, 1997
- 109. Kern KB, Hilwig RW, Berg RA, Rhee KH, Sanders AB, Otto CW, Ewy GA: Post Resuscitation Left Ventricular Systolic and Diastolic Dysfunction: Treatment with Dobutamine. *Circulation* 95:2610-13, 1997
- 110. Berg RA, Henry C, Otto CW, Sanders AB, Kern KB, Hilwig RW, Ewy GA: Initial End-Tidal CO₂ is Markedly Elevated during Cardiopulmonary Resuscitation After Prolonged Asphyxial Cardiac Arrest. *Pediatric Emergency Care* 12:245-248, 1996
- 111. Kern KB, Hilwig RW, Berg RA, Rhee KH, Sanders AB, Otto CW, Ewy GA: Post Resuscitation Left Ventricular Systolic and Diastolic Dysfunction; Treatment with Dobutamine. *Circulation* 95:2610-2613, 1997
- 112. Otto CW: Airway Management and Ventilation during CPR. *Acta Anaesthesiologica Scandinavica* 41(Suppl): 52-54, 1997
- 113. Hilwig RW, Berg RA, Kern KB, Sanders AB, Otto CW, Ewy GA: Catecholamines in Cardiac Arrest: Role of Alpha Agonists, Beta-Adrenergic Blockers and High Dose Epinephrine. *Resuscitation* 47: 203-208, 2000
- 114. Babbs CF, Berg RA, Kette F, Kloeck WG, Lindner KH, Lurie KG, Morley PT, Nadkarni VM, Otto CW, Paradis NA, Perlman J, Stiell I, Timerman A, Van Reempts P, Wenzel V: Use of pressors in the treatment of cardiac arrest. *Ann Emerg Med* 37(4 Suppl): S152-S162, 2001
- 115. Otto CW: Cardiac Arrest and Monitoring. In Monitoring during Critical Events, *Anesthesiology Clinics of North America*, Wilson WC (ed), W. B. Saunders, Philadelphia. 19: 717-726, 2001
- 116. Hayes MM, Berg RA, Otto CW: Monitoring during cardiac arrest: are we there yet? *Curr Opin Crit Care* 9:211-217, 2003

- 117. Kern KB, Valenzuela TD, Clark LL, Berg RA, Hilwig RW, Berg MD, Otto CW, Newburn D, Ewy GA: An alternative approach to advancing resuscitation science. *Resuscitation* 64: 261-268, 2005
- 118. Valenzuela TD, Kern KB, Clark LL, Berg RA, Berg MD, Berg DD, Hilwig RW, Otto CW, Newburn D, Ewy GA: Interruptions of chest compressions during emergency medical systems resuscitation. *Circulation* 112:1259-1265, 2005
- 119. Ewy GA, Kern KB, Sanders AB, Newburn D, Valenzuela TD, Clark L, Hilwig RW, Otto CW, Hayes MM, Martinez, P, Berg RA: Cardiocerebral resuscitation for cardiac arrest. *Am J Med* 119:6-9, 2006
- 120. Ewy GA, Zuercher M, Hilwig RW, Sanders AB, Berg RA, Otto CW, Hayes MM, Kern KB: Improved neurological outcome with continuous chest compressions compared with 30:2 compressions-to-ventilations CPR in a realistic swine model of out-of-hospital cardiac arrest. *Circulation* 116:2525-2530, 2007
- 121. Hayes MM, Ewy GA, Anavy ND, Hilwig RW, Sanders AB, Berg RA, Otto CW, Kern KB: Continuous passive oxygen insufflation results in a similar outcome to positive pressure ventilation in a swine model of out-of-hospital ventricular fibrillation. *Resuscitation* 74:357-365, 2007
- 122. Ewy GA, Hilwig RW, Zuercher M, Sattur S, Sanders AB, Otto CW, Schuyler T, Kern KB: Continuous chest compression resuscitation in arrested swine with upper airway inspiratory obstruction. *Resuscitation* 81:585-590, 2010
- 123. Zuercher M, Ewy GA, Otto CW, Hilwig RW, Bobrow BJ, Clark L, Chikani V, Sanders AB, Berg RA, Kern KB: Gasping in response to basic resuscitation efforts: Observation in a swine model of cardiac arrest. *Critical Care Research and Practice* Vol 2010:article #351638, 7 pg, 2010
- 124. Zuercher M, Ewy GA, Hilwig RW, Sanders AB, Otto CW, Berg RA, Kern KB: Continued breathing followed by gasping or apnea in a swine model of ventricular fibrillation cardiac arrest. *BMC Cardiovascular Disorders* 10:36, 2010
- 125. Morrison LJ, Deakin CD, Morley PT, Callaway CW, Kerber RE, Kronick SL, Lavonas EJ, Link MS, Neumar RW, Otto CW, Parr M, Shuster M, Sunde K, Peberdy MA, Tang W, Vanden Hoek TL, Böttiger BW, Drajer S, Lim SH, Nolan JP, Advanced Life Support Chapter Collaborators: Part 8: Advanced Life Support: 2010 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations. *Circulation* 122:S345-S421, 2010 & *Resuscitation* 81 (Supp 1): e93-e174, 2010 (simultaneous publication)
- 126. Cave DM, Gazmuri RJ, Otto CW, Nadkarni VM, Cheng A, Brooks SC, Daya M, Sutton RM, Branson R, Hazinski MF: Part 7: CPR Techniques and Devices: 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation* 122:S720-S728, 2010

- 127. Neumar RW, Otto CW, Link MS, Kronick SL, Shuster M, Callaway CW, Kudenchuk PJ, Ornato JP, McNally B, Silvers SM, Passman RS, White RD, Hess EP, Tang W, Davis D, Sinz E, Morrison LJ: Part 8: Adult Advanced Cardiovascular Life Support: 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. *Circulation* 122: S729-S767, 2010
- 128. Ewy GA, Bobrow, BJ, Chikani V, Sanders AB, Otto CW, Spaite D, Kern KB: The Time Dependent Association of Adrenaline Administration and Survival from Out-of-Hospital Cardiac Arrest. *Resuscitation*. 2015 Nov; 96:180-5. DOI: 10.1016/j.resuscitation.2015.08.011. Epub 2015 Aug. PMID: 26307453.
- 129. Brooks SC, Anderson ML, Bruder E, Daya MR, Gaffney A, Otto CW, Singer AJ, Thiagarajan RR, Travers AH: Part 6: Alternative Techniques and Ancillary Devices for Cardiopulmonary Resuscitation: 2015 American Heart Association Guidelines Update for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. Circulation. 2015 Nov 3; 132 (18 Suppl 2):S436-43. DOI: 10.1161/CIR.000000000000000260. PMID: 26472994.

Newsletter Articles

- 1. Otto CW: Refresher Course and Clinical Update Program. ASA Newsletter, Volume 63, July 1999
- 2. Otto CW: Scientific Paper Process Moves Online. ASA Newsletter, Volume 64, July 2000.
- 3. Otto CW: Breakfast Panels: Nutrition and Knowledge. *ASA Newsletter*, Volume 65, July 2001
- 4. Otto CW: Emery A. Rovenstine Memorial Lecture: Burton S. Epstein, M.D., to Present 'ASA's Efforts in Developing Guidelines for Sedation and Analgesia for Nonanesthesiologists'. *ASA Newsletter*, Volume 66, July 2002
- 5. Otto CW: Division of Scientific Affairs: ASA's CME Home. ASA Newsletter, Volume 69, May 2005
- 6. Otto CW: ASA Responds to Hurricane Katrina Disaster. *ASA Newsletter*, Volume 70, March 2006
- 7. Otto CW: Simulator-Based Education: The Future of CME. *ASA Newsletter*, Volume 70, May 2006
- 8. Otto CW: Science in Academe: The Lifeblood of Anesthesiology. *ASA Newsletter*, Volume 71, May 2007
- 9. Otto CW: ASA's Educational Mission. ASA Newsletter, Volume 72, May 2008
- 10. Otto CW: Medical Professionalism. ASA Newsletter, Volume 73, May 2009

11. Otto CW: John R. Moyers, M.D. – The Face of FAER Educational Grants. *ASA Newsletter*, Volume 77, April 2013

Professional Development

11/2015 American Heart Association Scientific Sessions Orlando, FL

9/2016 World Anesthesia Conference

Hong Kong, China

10/2016 American Society of Anesthesiologists Annual Meeting

Chicago, IL