

Curriculum Vitae: **Michelle Biros, MD, MS, FACEP**

Department of Emergency Medicine  
 Hennepin County Medical Center  
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Medical Training

University of Cincinnati Medical Center

July 1985-June 1986

**Chief Resident**, Emergency Medicine

July 1984-June 1985

**Research Fellow**, Emergency Medicine

July 1982-June 1986

**Resident**, Emergency Medicine

Education

University of Minnesota School of Medicine

1982 **MD** Minneapolis, Minnesota

University of Minnesota, Department of Biochemistry

1976 **MS Biochemistry**, Minneapolis

College of St. Catherine

1974 **BA Chemistry**

Licensure

Medicine, Minnesota, 0299895

Medicine, Ohio, 050290, inactive

Medicine, Kentucky, 23611, inactive

Certification
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1989 – present	Fellow, American College of Emergency Medicine (FACEP)
1988 – present	Board Certified, Emergency Medicine (Re-certified 1998)
1988 – present	Pediatric Advanced Life Support (PALS) Provider, Instructor
1986 – present	Advanced Trauma Life Support (ATLS) Provider, Instructor
1982 – present	Advanced Cardiac Life Support (ACLS) Provider, Instructor
1991 – present	Advanced Pediatric Life Support (APLS) Provider, Instructor

Professional Associations
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American College of Emergency Physicians  
 Society for Academic Emergency Medicine  
 American Medical Association  
 Minnesota Medical Association  
 Hennepin County Medical Association  
 The Neurotrauma Society  
 Physicians for Social Responsibility  
 Council of Science Editors  
 American Academy of Emergency Medicine

Work Experience
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1998- present	Editor – in - Chief, <i>Academic Emergency Medicine</i>
1986-present	Hennepin County Medical Center, Department of Emergency Medicine; Faculty Physician
1982-1986	University of Cincinnati Medical Center, Department of Emergency Medicine; Resident in Training
1985-1986	Bethesda Care, Warren County; Part-time Emergency Physician Lebanon, Ohio
1984-1986	University of Cincinnati; Air Care Flight Physician
1984-1985	Booth Memorial Hospital, Florence, Kentucky; Part-time Emergency Physician
1983-1986	Norwood Rescue Unit, Norwood, Ohio; Medical Instructor
1976-1978	University of Minnesota School of Dentistry, Department of Dental Biochemistry Assistant Research Scientist and Biochemistry Laboratory Instructor
1970-1974	College of St. Catherine Department of Chemistry Part-time Laboratory Instructor/Assistant Technician

Appointments/Committees
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Academic

2002- present	Professor of Emergency Medicine University of Minnesota School of Medicine
1999-2002	Associate Professor of Emergency Medicine University of Minnesota School of Medicine

1992-1999 Assistant Professor of Neurosurgery  
University of Minnesota School of Medicine

Institutional : Hennepin County Medical Center [HCMC]and University of Minnesota

2005-present Medical School Promotion and Tenure Committee, Alternate  
2005- present HCMC Stroke Team Development and Leadership Team  
2004 –present Medical School Admission Committee  
2004 Co-Chair, Minneapolis Medical Research Foundation Gala for  
Emergency Services  
2002 –present Research Director, Department of Emergency Medicine ( University)  
1995-2000 Editorial Board, *Neurotrauma News*, Hennepin County Medical Center  
1995 Clinical Systems Program: Epilepsy Prototype team  
1995-1996 Clinical Systems Program: Research Task Force  
1995 Neurology Chief Search Committee  
1994-1996 Human Subjects Research Surveillance Committee  
1993-1996 Minneapolis Medical Research Foundation Board of Directors  
1993-1994 Hennepin Faculty Associates Research and Education Committee  
1992-1994 Animal Care, Use, and Research Committee  
1992-1997 Human Subjects Research Committee (IRB)  
1991-1993 Director, Neuroscience Research Laboratory, HCMC Departments of  
Emergency Medicine and Neurosurgery  
1990 Family Practice Chief Search Committee  
1990-1991 Hennepin Faculty Associates Promotions Committee  
1989-1992 Minneapolis Med Research Foundation Research Facilities/Equipment  
Committee

Departmental

2000 –present Co-Director, Research Associate Program, HCMC  
2004 Chair, Great Saves! Emergency Medicine Educational Conference  
1992 –present Research Director, Department of Emergency Medicine, HCMC  
1990 –present Neurology/Neurosurgery/Crisis Intervention Center Departmental Liaison  
1987 –present Emergency Medicine Fellowship Director  
1993-1999 Co-Editor, *Research Gazette*, Department of Emergency Medicine, HCMC  
1989-1992 Coordinator: Intern Emergency Department Rotation  
1989-1991 Chair: Emergency Medicine Education Committee  
1989-1991 Hyperbaric, Finance, Research, Residency/Fellowship Committees  
1986-1990 Advanced Cardiac Life Support Coordinator/Medical Director  
1985-1986 Emergency Medicine Resident Selection/Review Committee  
University of Cincinnati  
1985-1986 Co-Editor, *Emergency Medicine Newsletter*, University of Cincinnati  
1985-1986 Resuscitation Institute Committee, University of Cincinnati

Regional

2000-2001 MN ACEP Education Committee

1998-1999 AHA Stroke Awareness Metro Team: MN Chapter  
 1996-1997 Professional Advisory Board: Epilepsy Foundation, Minnesota Chapter  
 1994-1996 Emergency Cardiac Care Working Committee, Minnesota AHA  
 1990-1992 Emergency Cardiac Care Committee, American Heart Association (AHA),  
 Minnesota Affiliate  
 1989-1992 AHA Affiliate Faculty, ACLS: Minnesota Chapter

#### National

2005- present AAMC Integrity in Research Conference Grant Reviewer:  
 2002-present Item Writer, American Board of Emergency Medicine  
 2001-2002 Society for Academic Emergency Medicine (SAEM), Medical Student  
 Virtual Advisor  
 2000-present AHRQ Grant Review Section Member, SEP: Patient Safety  
 2000 SAEM Nominating Committee  
 1998-2003 Board of Directors, Foundation for Education and Research in Neurologic  
 Emergencies (FERNE)  
 1998 FDA Consultant, General and Plastic Surgery Devices Advisory Panel,  
 Center for Devices and Radiological Health  
 1998-present NINDS Ad Hoc Grant Review Committee: Neurology / Stroke  
 1997-1998 Steering Committee, National Clinical Trials, DCA in Traumatic Brain  
 Injury  
 1996-1997 Chair, SAEM Academic Development Task Force  
 1996-1997 Chair and Founder, SAEM Research Directors' Special Interest Group  
 1995-1997 Emergency Medicine Foundation Board of Directors/Trustees  
 1995-2001 SAEM Board of Directors  
 1994-1996 Chair and Founder, Coalition of Acute Resuscitation Researchers  
 1993-present ACEP Research Section  
 1993-1995 NIH SBRG Ad Hoc Grant Review Committee: Devices  
 1992-1995 Chair, SAEM Research Committee  
 1992-1996 Program Committee, SAEM  
 1992-1998 Research Consultant Service, SAEM  
 1992-1996 SAEM Abstract Reviewer  
 1989-1992 Chair, SAEM Research Curriculum Development Subcommittee, Research  
 Program Curriculum Development Committee, SAEM Subcommittee on  
 Fellowship Curriculum Development  
 1988-1992 SAEM/Emergency Medicine Foundation Medical Student Grant Reviewer  
 1987-1989 University Association for Emergency Medicine Abstract Selection  
 Committee; Basic Science Abstract Reviewer

#### Editorial Work

2004-present Associate Editor, *Rosen's Emergency Medicine 6<sup>th</sup> Edition* (2005)  
 1999-present Peer Reviewer, *JAMA*  
 1997- present Editor in Chief, *Academic Emergency Medicine*  
 1995-1997 Associate Editor, *Academic Emergency Medicine*  
 1993-1998 Editorial Board *Academic Emergency Medicine*

1989-1995 Basic Science Reviewer, *Academic Emergency Medicine*,  
*Annals of Emergency Medicine*

Academic Awards/Recognitions
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1997	ACEP Outstanding Contribution to Research Award
1995	Best Oral Basic Science Presentation, SAEM Annual Scientific Meeting, 1995 “Effects of 21-Aminosteroid and/or HBO on Functional Recovery Following Experimental Head Trauma.”
1994	Ernie Ruiz Faculty Teaching Award, Department of Emergency Medicine, HCMC
1991	Nominated for “Distinguished Clinical Teacher: U of M, Class of 1991
1990, 1991	University of Minnesota Outstanding Mentor Awards
1990	Best Oral Basic Science Presentation, SAEM Annual Scientific Meeting, 1990, “Effects of Chemical Interventions in Functional Recovery Following Head Trauma in the Rat.”
1985-1986	“Appreciation Award for Services as Flight Physician”: U of Cincinnati Air Care
1985	First Annual Medical Networks and Emergency Medicine Resident Association Award for Academic Excellence
1985	Best Basic Science Paper, SAEM Scientific Meeting, 1985, “Post Insult Treatment of Ischemia Induced Cerebral Lactic Acidosis in the Rat.”
1980	Lampson Award: Outstanding Woman Medical Student, U of M, Duluth

Research Grants
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2005-2007	U Care Grant Award; Screening for Depression in Adolescent and Young Adult ED Patients ( PI), \$54,000
2005	AAMC Small Conference Grant; Academic Emergency Medicine ( AEM ) Consensus Conference : Ethical Conduct of Resuscitation Research ( Co- PI), May 2005, \$25,000
2003	AHRQ Small Conference Grant; AE M Consensus Conference: Disparities In Emergency Health Care May 2003, \$25,000
2001	Pfizer Research Award, Psychiatric Screening in ED Patients (PI), \$20,000
2000-2001	Viropharma, Pleconaril for Pediatric Colds (Site API), \$24,000
2000	Bayer, Epidemiology of Human Bites (Site SPI), \$3,500
2000	Viropharma, Pleconaril for Viral Meningitis (Site PI), \$3,000
1998-present	Site Investigator and PI for the Emerging Infectious Disease Network
	2005 Epidemiology of MRSA , \$15,000
	2003 Emerging Infectious Diseases (Emerg ID Net) Pneumonia and TB Screening \$17,000
	2000 - 2002 Antibiotic-Prescribing Patterns \$3,000
	1998- 2005 Pyelonephritis, Emerging Antibiotic Resistance \$15,000

- 1994-1997 Hennepin Faculty Associates Established Investigator Research Award: The Neuropathologic Consequences of Alcohol and Single or Multiple Episodes of Minor Head Trauma in a Rodent Model. (PI): \$75,000
- 1992-1993 NIH Biomedical Research Support Grant, Histologic Evaluation of Head Trauma Models (PI): \$12,000
- 1992-1993 Research Mentor and Sponsor, Bill Heegaard, MD, Recipient of Emergency Medicine Foundation Resident Research Grant (\$5,000)
- 1992 Research Mentor for Kristin Moscotti, BS, recipient of SAEM Annual Scientific Meeting's Best Student Presentation, Toronto, 1991
- 1991-1992 Emergency Medicine Foundation Career Development Grant; Treatment with Chemical Intervention and Hyperbaric Oxygen Following Blunt Head Trauma in Rats: Neurochemical Outcome (PI): \$25,000
- 1991-1994 National Institute of Health Program Development Grant, "Evaluation of Hyperbaric Oxygen in Head Injury." (Program Director: Gaylan Rockswold, MD, PhD) Principle Investigator - Project 2 - "Effect of 21- Aminosteroid and Hyperbaric Oxygen Following Head Trauma in the Rat." Co-investigator - Project 1, "Optimal Dosing Schedule of Hyperbaric Oxygen Treatment in the Head Injured Rat." (Principle Investigator - Thomas Bergman, MD) (total award \$750,000)
- 1990 Research Mentor for Julie Zink, BS, recipient of Minnesota Medical Foundation Student Research Grant \$2,400
- 1987 - 1990 Hennepin Faculty Associates Young Investigator Research Grant, Dichloroacetate and Hyperbaric Oxygen in the Treatment of Partial Global Ischemia in the Rat. (PI): \$75,000

Research Topic Presentations/Lectures
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*Challenges in International Emergency Medicine Research*

- North Shore Emergency Medicine Grand Rounds, December 2005

*You Be the Editor*

- Peds-EM Fellows Conference, Marina Del Rey, CA March 2005

*Reading and Writing Science*

- 3<sup>rd</sup> International Mediterranean Conference of Emergency Medicine, Nice, France September 2005
- Hennepin County Medical Center, January, 2005

*Manuscript Preparation and Scientific Writing*

- Navigating the Waters: CORD Academic Development Course, Washington DC, March 2001: March 2002:March 2003:March 2004
- Pediatric-Emergency Medicine Fellows Conference, Baltimore, MD, March 2000
- SAEM Annual Scientific Meeting, May 2000 : May 2003: May 2005
- Pros and Cons of Peer Review: Emergency Medicine Pearls for the 21<sup>st</sup> Century, University of Cincinnati, September 2000

*New Directions in Emergency Medicine Research*

- 1<sup>st</sup> International Mediterranean Conference of Emergency Medicine, Stresa, Italy, September 2001
- Southeastern SAEM Regional Scientific Meeting, New Orleans, March, 2001

- SAEM Western Regional Research Forum, Portland, WA, April 2000

*Evidence Based Medicine: Emergency Perspective*

- Emergency Medicine Grand Rounds, HCMC, May 1997
- FAEM/SAEM International Emergency Medicine Conference, Oxford, England, September 1998

*Animal Research*

- ACEP Emergency Medicine Research Basics, Dallas, Texas, July 1998

*Research Ethics*

- University of Massachusetts, Emergency Medicine Grand Round, April 2001
- Indiana University, Department of Emergency Medicine, September 1999
- EMRA/SAEM William Spivey Resident Research Forum, SAEM, Boston, May 1999
- ACEP Emergency Medicine Research Basics, Dallas, Texas, July 1998

*The Evolution of a Clinical Trial*

- UC Davis Research Forum, Sacramento, June 1999
- Emergency Medicine Grand Rounds, SUNY Stony Brook, November 1997
- Emergency Medicine Grand Rounds, Wright State, Dayton, Ohio, August 1997
- Emergency Medicine Grand Rounds, HCMC, May 1997; March 2003
- 1st Annual North East Regional Research Conference, Providence RI, April 1997

*The Life and Death of Manuscripts*

- Mid Atlantic SAEM Regional Scientific Meeting, Charlotte, March 2001
- Navigating the Waters: CORD/SAEM Faculty Development Conference, March 2000
- Oregon Health Sciences University, Department of Emergency Medicine, June 1999
- University of Michigan Emergency Medicine Forum, Ann Arbor, May 1998
- Midwest Regional Research Conference, Columbus, Ohio, April 1998
- Navigating the Academic Waters: San Antonio, November 1997

*Facilitating Change: Emergency Medicine and the FDA's Final Informed Consent Rule*

- Emergency Medicine Grand Rounds, Regions Hospital, St. Paul, May 1997

*Developing Research in Emergency Medicine: The Infrastructure*

- Future Directions in Emergency Medicine Research, Washington DC, March 1997

*Waiver of Consent: The New Regulations*

- NAEMSP Research Agenda: Washington, June 2002
- Methodist Hospital, Emergency Medicine, Indianapolis, September 1999
- Oregon Health Sciences University, Emergency Medicine, June 1999
- SAEM Annual Scientific Meeting, Chicago, Illinois, May 1998
- 20th Annual Rocky Mountain Research Forum, Denver, January 1997

*Medical Research Without Consent: A National Debate*

- 1<sup>st</sup> Mediterranean Conference of Emergency Medicine, Stresa, Italy, September 2001
- National Press Club, Washington DC, December 1996

*Mentoring in Emergency Medicine: The Research Perspective*

- Navigating the Academic Waters: Tools for E Med, Washington, November 1996; San Antonio, November 1997

*Mentorship and Publication Ethics*

- Peds – EM Fellows Conference, Dallas, February 2002
- Peds - EM Fellows Conference, Los Angeles, March 2001
- Emergency Medicine Grand Rounds, Emory University, April 1996
- Emergency Medicine Grand Rounds, University of Cincinnati, March 1996
- Emergency Medicine Grand Rounds, Cook County Hospital, March 1996
- Emergency Medicine Grand Rounds, Hennepin County Medical Center, January 1996
- Emergency Medicine Grand Rounds, Augsburg PA Program, January 1996

*Current Concepts in Cerebral Resuscitation*

- SAEM Annual Meeting, Denver, May 1996

*The Emergency Research Perspective*

- The Ends of the Spectrum: Children to Geriatrics, OPRR/CDC Conference on Issues of Consent, Emory University, April 1996

*The Future of Emergency Medicine Research*

- NYC CORD All City Conference, New York Academy of Medicine, April 1996

*Getting Started in Research*

- All India EmCon, Mumbai, November 2004
- St. John's Medical School, Bangalore, India, February 2001
- All Israeli Emergency Medicine Conference, Tel Aviv, Israel, August 2000
- Navigating the Waters: CORD/SAEM Faculty Development Conference, March 2000
- North East Regional Research Conference, Providence RI, April 1997
- Emergency Medicine Grand Rounds, University of Alberta, September 1995
- Towards Total Life Support, Conference, St. Cloud, Minnesota, February 1995
- Emergency Medicine 2nd Annual Research Forum, Medical College of Wisconsin, Milwaukee, April 1993

*Issues of Consent in Emergency Research*

- Emergency Medicine Grand Rounds, University of Indiana, September 1999
- Emergency Medicine Grand Rounds, University of Alberta, September 1995
- Emergency Medicine Grand Rounds, University of Rochester, April 1996
- NAEMSP Annual Meeting, San Diego, July 1995

*Fundamentals of Research: The Art of the Scientific Presentation*

- SAEM Annual Meeting, San Antonio, May 1995; Washington, May 1997

*Fundamentals of Research: Getting Started*

- SAEM Annual Scientific Meeting, Washington, May 1994, San Antonio, May 1995; Washington, May 1997

*Regulatory Update: Issues of Consent in Emergency Research*

- SAEM Annual Meeting, Orlando, Florida, May 2004
- PECARNS Planning Meeting, San Francisco, October 2002
- SAEM Annual Meeting, San Francisco, CA, May 2000
- SAEM Annual Meeting, San Antonio, May 1995

*Critical Literature Review*

- Towards Total Life Support Conference, St. Cloud, Minnesota, February 1995

*Moderator: Waiver of Consent in Emergency Medicine Research - Under What Circumstances?*

- SAEM Annual Scientific Meeting, Washington, May 1994

*Moderator: Research Director's Luncheon - The Pros and Cons of Research Directors*

- SAEM Annual Scientific Meeting, Washington, May 1994

*Panelist: Professional Development Issues for Women in Academic Medicine*

- SAEM Annual Scientific Meeting, Washington, May 1994

*Current Research in Emergency Medicine*

- Minneapolis Emergency Medicine Forum, April 1994, May 1995; April 2003
- Panel Moderator, SAEM, San Francisco, May 1993
- 1st Emergency Medicine Conference of Basque County, Bilbao, Spain, June 1992

*New Concepts in the Management of Head Trauma*

- South Dakota ACEP Mid Winter Meeting, Rapid City, March, 2001
- St. John's Medical School, Bangalore, India, February 2001
- HCMC Emergency Medicine Grand Rounds, Minneapolis, October 2000
- Emergency Medicine Grand Rounds, Boston City Hospital, March 1995
- Emergency Medicine Grand Rounds, Rhode Island Hospital, February 1994
- Emergency Medicine Grand Rounds, Ann Arbor, November 1993
- Emergency Medicine Grand Rounds, Beaumont Residency, Detroit, November 1993
- Plenary Session, SAEM/EMRS 2nd International Meeting, Cambridge, September 1993

*Use of Hyperbaric Oxygen in Head Injury*

- Surgery Grand Rounds, HCMC, September 1993
- Emergency Medicine Grand Rounds, Ann Arbor, Michigan, November 1993

*How to Build a Lab*

- SAEM Scientific Meeting, San Francisco, May 1993

*Scientific Misconduct and Fraud*

- SAEM Annual Scientific Meeting, San Francisco, May 1993; Denver, May 1996
- U of Cincinnati Emergency Medicine Research Seminar, January 1990

*Experimental Head Trauma Modeling*

- Neuroscience Conference, University of Minnesota, November 1992

*Advances in Head Trauma Research*

- Neuroscience Conference, University of Minnesota, February 1991
- Plenary Session, SAEM/EMRS 1st International Combined Meeting, October 1990, Edinburgh, Scotland

*Blunt Head Trauma in Rats*

- Medical College of VA, Neuroscience Conference, July 1990

*Biochemistry of Head Trauma*

- University of Cincinnati Emergency Medicine Research Seminar, January 1990

*Head Trauma Research at Hennepin County Medical Center*

- Neurology/Neurosurgery Conference, February 1989

*Mechanisms and Biochemistry of Cerebral Ischemia*

- Cambridge Family Practice Group, Cambridge, Minnesota, August 1988

*Models for Cerebral Ischemia*

- Neurology/Neurosurgery Conference, Hennepin County Medical Center, June 1988

Original Research Presentations
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*Incidence of Hunger in Non-English Speaking Patients*

SAEM Annual Meeting, May 2003

*Health Care Utilization by Chronic Inebriates*, SAEM Atlanta, May 2001*Predictors of Violence and Aggression in Male ED Patients*

SAEM, San Francisco, May 2000

*Prevalence and Effects of Hunger in an ED Population* SAEM, Boston, May 1999*Neurologic Consequences of Multiple Minor Head Trauma Sustained While Intoxicated*

FAEM/SAEM International Emergency Medicine Conference, Oxford, England, September 1998

SAEM, Chicago, Illinois, May 1998

*Incidence of Unsuspected Psychiatric Illness in ED Patients*

ACEP Research Forum, San Francisco, October 1997

Hennepin Faculty Associates (HFA) Poster Sessions, Minneapolis, April 1997

*Behavioral Effects of Multiple Minor Head Injuries in Acutely Intoxicated Rats*

HFA Poster Session, February 1997

Neurotrauma Symposium, Washington DC, November 1996

*Delay in the Diagnosis of Traumatic T-L Spinal Fractures*

3rd International Neurotrauma Symposium, Toronto, July 1995

*The Frequency and History of Minor Head Injury Sustained While Intoxicated*

3rd International Neurotrauma Symposium, July 1995

*Effects of 21 Aminosteroid and/or HBO on Functional Recovery Following Experimental Head Trauma*

SAEM, San Antonio, May 1995

*Rapid Consensus Development*

SAEM, San Antonio, May 1995

*Multiple Minor Head Injury in Intoxicated Patients*

SAEM San Antonio, May 1995

*Effects of Hypothermia, Dichloroacetate Acid and Deferoxamine on Functional Recovery after Closed Head Injury in the Rat*

ACEP Scientific Forum, San Diego, California, March 1994

*Effects of HBO and Tirilazad on Neurochemical Parameters Following Fluid Percussion Injury in the Rat* 11th Annual Neurotrauma Symposium, Washington, DC, November 1993 and HFA Scientific Poster Session, December 1993*Treatment of Neurochemical Alterations Caused by Cortical Impact Injury in the Rat*

HFA Scientific Poster Presentation, December 1992

SAEM, San Francisco, California, May 1993

SAEM/EMRS 2nd International Meeting, Cambridge, England, Sept 1993

EMF Scientific Showcase, Seattle, Washington, September 1992

- Hyperbaric Oxygen and Tirilazad Mesylate in Experimental Head Injury - NIH Update*  
Houston, June 1993
- Dose Dependence of Deferoxamine in the Prohibition of HBO-induced Lipid Peroxidation*  
Neurotrauma Society 10th Annual Symposium, Anaheim, California, October 1992
- In Vitro Effects of Deferoxamine and 21-Aminosteroid on Hyperbaric Induced Lipid Peroxidation in Rat Brain*  
SAEM, Toronto, May 1992 (poster)
- Dichloroacetate and Hyperbaric Oxygenation Treatment of Post-Traumatic Cerebral Edema in Rats*  
SAEM, Washington, DC, May 1991 and HFA Scientific Poster Session, May 1991
- Intern Perceptions of the Field, Practice, and Teaching of Emergency Medicine*  
Educational Showcase, SAEM, Washington, DC, May 1991  
HFA Scientific Poster Session, May 1991
- Early Cerebral Edema Formation After Head Trauma in Rats*  
SAEM/EMRS 1st International Meeting, Edinburgh, Scotland, October 1990  
HFA Scientific Poster Session, December 1990
- Effects of Chemical Interventions on Cerebral Edema Formation Following Head Trauma in the Rat*  
SAEM, HFA Scientific Poster Session, May 1989
- Effects of Chemical Intervention on Functional Recovery Following Head Trauma in Rats*  
SAEM, HFA Scientific Poster Session, Minneapolis, May 1990
- Brain Lactate Dynamics During Partial Global Ischemia in the Rat*  
University Association for Emergency Medicine, Portland, May 1986
- Treatment of Lactic Acidosis that Follows Partial Global Ischemia in the Rat*  
Poster Presentation, 12th International Symposium of Cerebral Blood Flow and Metabolism, Ronneby, Sweden, June 1985
- Post Insult Treatment of Ischemia Induced Cerebral Lactic Acidosis in the Rat*  
University Association for Emergency Medicine, Kansas City, May 1985

Clinical Presentations/Lectures
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*Medical Ethics*

University of Rochester Emergency Medicine, Grand Rounds, September 2002

*Errors in Emergency Medicine*

South Dakota ACEP Midwinter Meeting, Rapid City, March 2001

Minneapolis Emergency Medicine Forum (MEMF), Minneapolis, November 2000

*Grief and Death Telling*

Hennepin County Medical Center, All Resident Lecture, Minneapolis, January 2005

Regions Hospital, All Resident Core Competency Conference, Saint Paul, March 2005

Regions Hospital, Department of Emergency Medicine, August 2001

HCMC Department of Emergency Medicine, October 2002

*Minor Head Trauma*

Minnesota ACEP Summer Education Conference, Brainerd, August 2002

Minnesota Academy of Family Practice, Minneapolis, May 2001

Schneider Hospital for Children, Tel Aviv, Israel, August 2000

Eastern Carolinas Emergency Medicine Annual Research Day, June 2000

Rice Memorial Hospital, Willmar, Minnesota, Grand Rounds, June 2000  
 2nd Annual Trauma Conference, Jacobi Medical Center, New York, May 2000  
 HCMC Emergency Medicine Grand Rounds, Minneapolis, MN, July 2000  
 University of Virginia Emergency Medicine Grand Rounds, May 1996

*Headaches*

Hutchinson Emergency Department, November 1998

*Prehospital Cerebral Resuscitation*

Paramedic Continuing Education, HCMC, August 1998; March 2002  
 HCMC Trauma Symposium, Bloomington, April 1997

*The Use of tPA in Stroke*

Paramedic Continuing Education, HCMC, August 1998  
 Paramedic Continuing Education, HCMC, March 1997

*Neuro trauma; The Emergency Department and Beyond*

Hutchinson Emergency Department, June 1999  
 Rocky Mountain Research Forum on Emergency Medicine, Denver, January 1997

*Distinguishing Functional from Organic Brain Disorders*

Rocky Mountain Winter Conference, Emergency Medicine, Colorado, February 2005  
 ACEP Scientific Assembly, Washington, DC, September 1995  
 HCMC Emergency Medicine, Grand Rounds, , April 1994; September 1999  
 ACEP Scientific Assembly, October 1993

*Medical Complications of Psychiatric Diseases*

HCMC Grand Rounds, Department of Emergency Medicine, August 2000, Feb 2005  
 ACEP Scientific Assembly, Washington, DC, September 1995

*Medical History: Mythology - The First 1000 Years*

Augsburg Physician's Assistant Training Program, Minneapolis, Minnesota, June 1995  
 Emergency Medicine Core Curriculum Lecture Series, HCMC, September 1993

*Finding the Cause of Coma*

Trauma - Surviving into the 21st Century, Bloomington, Minnesota, April 1995

*Head Trauma - Prehospital Issues*

Towards Total Life Support, St. Cloud, Minnesota, February 1995  
 Combined Clinical Conference on Emergency Care, Columbia, Missouri, August 1994

*Early Treatment of Head Injury and Secondary Tissue Injury*

West Virginia ACEP Annual Meeting, Charleston, West Virginia, August 1994

*Emergency Therapies in the Treatment of Head Trauma*

Combined Clinical Conference on Emergency Care, Columbia, Missouri, August 1994

*Current Trends in Head Trauma Care*

Emergency Medicine Grand Rounds, Medical College of Pennsylvania, June 1994  
 Minnesota ACEP Annual Meeting, April 1994  
 Grand Rounds, Department of Neurosurgery, University of Minnesota, January 1994  
 RPAP Medical Student Lecture, University of Minnesota, October 1993

*Initial Approach to the Trauma Patient*

Key Note Address: 2nd Annual Trauma/Emergency Medicine Conference, Society of  
 Emergency Medicine, Basque County, Bilbao, Spain, October 1993  
 Departments of Emergency Medicine - Reising Hospital, Shanghai, 6th People's  
 Hospital, Beijing, 1st People's Hospital, Nanjing, China, August 1992

*CPR - Strategies and Controversies: New thoughts on ACLS*

Critical Care Conference, Department of Internal Medicine, HCMC, December 1992  
 University of Minnesota, Medicine Grand Rounds, February 1992

*Pediatric Airway Management*

Pediatric Puzzles, St. Cloud, November 2000

*Medical Legal Aspects of EM Care*

Minnesota Association of Women in Criminal Justice, March 2000

Publications
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#### Textbook Editorship

Biros MH, Sterner S, Bogel EC (eds): *Handbook of Urgent Care Medicine*, 2<sup>nd</sup> Edition, Hanley and Belfus, Philadelphia, 2002

Biros MH, Sterner S (eds): *Handbook of Urgent Care Medicine*, 1st Edition. Aspen Publications, Rockville, MD, 1990

#### Thesis

*Isolation and Characterization of Lactoferrin from Bovine and Human Milk and Human Parotid Saliva - Masters Thesis*, Department of Biochemistry, University of Minnesota, August, 1976

#### Textbook Chapters

Biros MH, Heegaard WG: "Head Trauma" in Marx JA, et al., Rosen's *Emergency Medicine Concepts and Clinical Practices 5th Edition*, Mosby, 2002; 6<sup>th</sup> Edition, 2006

Biros MH: "Psychiatric Emergencies" in Conn, Borer, Snyder *Current Diagnosis 9*, WB Saunders, Philadelphia, 1996

Biros MH: "Anticonvulsants" In Barsan WG, Jastremski MS, Syverud S (eds): *Emergency Drug Therapy*, WB Saunders, Philadelphia, 1991

Biros MH: "Minor Surgical Trauma" in Biros, Sterner (eds): *Handbook of Urgent Care Medicine*, Aspen Publications, Rockville, MD, 1990; 2<sup>nd</sup> Edition, 2002

Biros MH: "Urgencies of the Oropharynx" in Biros, Sterner (eds): *Handbook of Urgent Care Medicine*, Aspen Publications, Rockville, MD, 1990; 2<sup>nd</sup> Edition, 2002

Biros MH, Meyer J, Plummer D, Ripkey C: "Special Medical Problems" in Biros, Sterner (eds): *Handbook of Urgent Care Medicine*, Aspen Publications, Rockville, MD, 1990

Biros MH, Mlinek E: "Dental Urgencies" in Biros, Sterner (eds): *Handbook of Urgent Care Medicine*, Aspen Publications, Rockville, MD, 1990

Biros MH: "Pelvis and Back, Non-Trauma" in Levy R and Barsan W. *Radiology in Emergency Medicine*, C.B. Mosby, Publishers, St. Louis, 1988

Morton T, Biros MH: "Infectious Disease" in Biros, Sterner (eds): *Handbook of Urgent Care Medicine*, Aspen Publications, Rockville, MD, 1990

#### Journal Articles (Refereed)

Miner JR, Fringer R, Siegel T, Gaetz A, Ling L, Biros M. Serial bispectral index scores in patients undergoing observation for sedative overdose in the emergency department. *Am J Emerg Med* 2006 ; 24 ( 1 ) : 53-57.

Martel ML, Sterzinger A, Miner J, Clinton J, Biros MH. Management of acute undifferentiated agitation in the ED; a randomized double blind trial of droperidol ziprasidone, and midazolam. *Acad Emerg Med* 2005: 12 ( 12 ): 1167-72.

Ernst AA, Weiss SJ, Nick TG, Iserson K, Biros MH. Minimal risk waiver of informed

- consent and exception from informed consent ( Final Rule ) studies at IRBs nationwide. *Acac Emerg Med* 2005: 12 ( 11): 1134-37.
- Biros. MH. The ethical conduct of resuscitation research ; setting the stage for change. . *Acac Emerg Med* 2005: 12 ( 11): 1015-16.
- Miner JR, Bachman A, Kosman L, Teng B, Heegaard W, Biros MH. Assessment of the onset and persistence of amnesia during procedural sedation with propofol *Acac Emerg Med* 2005: 12 ( 6): 491-96.
- Biros MH, Hoffman PL., Resch K. The prevalence and perceived health consequences of hunger in ED patient populations. *Acac Emerg Med* 2005: 12 ( 4): 310-17.
- Miner JR, Biros MH, Seigel T, Ross K. The Utility of bispectral index in procedural sedation with propofol in the emergency department. *Acac Emerg Med* 2005: 12 ( 3 ): 190-196.
- Miner JR, Martel HL, Meyer M, Reardon R, Biros MH. Procedural sedation of critically ill patients in the ED. *Acac Emerg Med* 2005: 12 ( 2 ): 124-8.
- Martel M, Miner J, Fringer R, Sufka K, Miamen A, Ho J, Clinton J, Biros MH, Discontinuation of Droperidol for the Control of Acutely Agitated Out-of-hospital Patients. *Prehospital Emergency Care* 2005, 9(1): 44-48.
- Haug E, Miner J, Dannehy M, Seigel T, Biros M, Bispectral electroencephalographic analysis of head-injured patients in the emergency department, *Acad EmergMed* 2004 (4):349-52
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