

RESEARCH PUBLICATIONS / ACTIVITY

RONALD M. MOSCATI, M.D., FACEP

Articles - Peer Reviewed Journals

1. Lee TP, **Moscatti R**, Park BH: Effects of Pesticides on Human Leukocyte Functions. Res Commun Chem Pathol Pharmacol. 1979 Mar;23(3):597-609.
2. **Moscatti R**, Moore G: Comparison of Cimetidine and Diphenhydramine in the Treatment of Acute Urticaria. Ann Emerg Med 1990;19:12-15.
3. **Moscatti R**, Moore G: Compartment Syndrome with Resultant Amputation Following Intraosseous Infusion. Am J Emerg Med 1990;8(5):470.
4. Yealy D, *Ellis J*, Hobbs G, **Moscatti R**; Intranasal Midazolam as a Sedative for Children During Laceration Repair. Am J Emerg Med 1992;10(6):584-587.
5. *Reich N*, **Moscatti R**, Jehle D, *Ciotoli M*; The Impact of a Major Televised Sporting Event on ED Census. J Emerg Med 1994;12(1):15-17.
6. Jehle D, **Moscatti R**, *Frye J*, *Reich N*; The Incidence of Spontaneous Subarachnoid Hemorrhage with Change in Barometric Pressure. Am J Emerg Med 1994;12:90-91.
7. **Moscatti R**, Jehle D, Ellis D, *Fiorello A*, *Landi M*; Positive Outcome Bias in the Emergency Medicine Literature. Acad Emerg Med 1994;1(3):267-271.
8. *Seymour J*, **Moscatti R**, Jehle D; Response of Headaches to Non-Narcotic Analgesics Resulting in Missed Intracranial Hemorrhage in Three Patients, Am J Emerg Med 1995;13:43-45.
9. Meropol S, **Moscatti R**, Lillis K, *Ballow S*, Janicke D; Alcohol-Related Injuries Among Adolescents in the Emergency Department, Ann Emerg Med 1995;26(2):180-186.
10. Billittier A, **Moscatti R**, Janicke D, Lerner E, *Seymour J*, Olsson D; A Multi-Site Survey of Factors Contributing to Medically Unnecessary Ambulance Transport, Acad Emerg Med, 1996;3(11):1046-1052.
11. **Moscatti R**, member of 24 Hours in the Life of an ED Group; Young G, Wagner M, Kellerman A, Ellis J, Bouley D; Ambulatory Visits to Hospital Emergency Departments: Patterns and Reasons for Use, JAMA, 1996;276(6):460.
12. Krause R, **Moscatti R**, *Felice M*, Lerner E, *Hughes D*; The Effect of Injection Speed on the Pain of Lidocaine Infiltration. Acad Emerg Med 1997;4(11):1032.
13. **Moscatti R**, Mayrose J, Fincher L, Jehle D: A Comparison of Normal Saline with Tap Water for Wound Irrigation. Am J Emerg Med 1998;16(4):379.
14. Lerner E, Billittier A, **Moscatti R**: The Effects of Neutral Positioning With and Without Padding on Spinal Immobilization of Healthy Subjects, Prehosp Emerg Care 1998;2:112.
15. **Moscatti R**, *Reardon R*, Lerner E, Mayrose J: Wound Irrigation with Tap Water? Faster! Cheaper! Better?. Acad Emerg Med 1998;5(11):1076.

16. Billittier A, Lerner E, **Moscati R**, Young G: Triage, Transportation and Destination Decisions by Out-of-Hospital Emergency Care Providers. *Prehosp Disaster Med* 1998;13(2):98-103.
17. Mayrose J, Jehle D, **Moscati R**, Lerner E, Abrams B: Comparison of Staples Versus Sutures in the Repair of Penetrating Cardiac Wounds. *J Trauma* 1999;46(3):441-444.
18. Abrams B, *Sukunvanich P*, Seibel R, **Moscati R**, Jehle D: Ultrasound for the Detection of Intraperitoneal Fluid: The Role of Trendelenburg Positioning. *Am J Emerg Med* 1999;17:117-120.
19. **Moscati R**, Billittier A, *Marshall B*, Fincher M, Jehle D, Braen G: Blood Loss Estimation by Out of Hospital Emergency Care Providers, *Prehosp Emerg Care* 1999;3:239-42.
20. Lerner E, Billittier A, Sikora J, **Moscati R**, Use of a Geographic Information System to Determine the Appropriate Means of Trauma Patient Transport, *Acad Emerg Med* 1999;6(11):1127-1133.
21. Lerner E, **Moscati R**: Duration of Spinal Immobilization in Emergency Department Patients, *Amer J Emerg Med* 2000;18(1):28-30.
22. **Moscati R**, Jehle D, Christiansen G, *D'Aprix T*, *Radford J*, *Connery C*, Billittier A: Endotracheal Tube Introducer for Failed Intubations: A Variant of the Gum Elastic Bougie, *Ann Emerg Med* 2000;36:52-56
23. Lerner E, Jehle D, Janicke D, **Moscati R**: Medical Communication: Do Our Patients Understand? *Am J Emerg Med*. 2000 Nov;18(7):764-6.
24. Lerner EB, **Moscati R**: "The Golden Hour: Scientific Fact or Medical 'Urban Legend'". *Acad Emerg Med* 2001; 8:758-60
25. Ellis D, Mayrose J, Jehle D, **Moscati R**, *Pieriluisi G*: A Telemedicine Model for Emergency Care in a Short-term Correctional Facility. *Telemed J E Health*. 2001 Summer;7(2):87-92.
26. Lerner E, Jehle DV, Billittier AJ, **Moscati RM**, *Connery CM*, *Stiller G*: The Influence of Demographic Factors on Seatbelt Use by Adults Injured in Motor Vehicle Crashes. *Accid Anal Prev*. 2001 Sep;33(5):659-62.
27. **Moscati R**: Protection of Human Subjects in Prehospital Research, *Prehosp Emerg Care* 2002;6(2):S18-23.
28. Krasnoff M, **Moscati R**: Domestic Violence Screening and Referral Can Be Effective. *Ann Emerg Med* 2002;40(5):485-92.
29. Phelan MP, **Moscati R**, *D'Aprix T*, *Miller G*: Paramedic Use of the Endotracheal Tube Introducer in a Difficult Airway Model. *Prehosp Emerg Care* 2003;7(2):244-6.
30. Lerner EB, Billittier AJ, **Moscati RM**, Adolf JE: The Time First-Responder Fire Fighters Have to Initiate Care in a Mid-sized City. *J Emerg Med* 2003;25(2):171-4.
31. **Moscati R**, Lerner EB, Pugh J: Application of Clinical Criteria for Ordering Radiographs to Detect Cervical Spine Fractures. *Am J Emerg Med* 2007 Mar;25(3):326-330.

Abstracts

1. **Moscati R**, Moore G; Comparison of Cimetidine and Diphenhydramine in the Treatment of Acute Urticaria. *Ann Emerg Med* 1989;18:475.

2. Yealy D, Ellis J, Hobbs G, **Moscati R**; Intranasal Midazolam as a Sedative for Children During Laceration Repair. *Ann Emerg Med* 1992;21(5):619-620.
3. **Moscati R**, Jehle D, Ellis D, *Fiorello A, Landi M*; Positive Outcome Bias in the Emergency Medicine Literature. *Ann Emerg Med* 1993;22(5):910.
4. Jehle D, **Moscati R**, Ewing J; Bicarbonate As An Independent Predictor of Outcome in Trauma. *Ann Emerg Med* 1994;23(3):623.
5. *Marshall B*, Billittier A, **Moscati R**, Jehle D, Braen R; Prehospital Blood Loss Estimates. *Ann Emerg Med* 1994;23(3):637.
6. *Seymour J*, **Moscati R**, Billittier A, Janicke D; A Multicenter Survey of Factors Contributing to Ambulance Misuse, *Acad Emerg Med* 1994;1(2):A57.
7. Yealy D, **Moscati R**; Ethanol Elimination Variability in Healthy Subjects, *Acad Emerg Med* 1994;1(2):A73.
8. Meropol S, **Moscati R**, Lillis K, Janicke D; Alcohol Related Injuries in Children and Adolescents, *Arch Ped Adol Med*, 1994;148:60.
9. **Moscati R**, Jehle D, Ellis D, Abrams B, Billittier A, Mayrose J, *Seymour J, Mason P*; Portable Fluoroscopy for the Evaluation of Extremity Injuries in the Emergency Department, *Acad Emerg Med*, 1995;2(5):459.
10. Ellis D, Jehle D, **Moscati R**, Watson J, Mayrose J; Initial Assessment of a PC-Based Emergency Telemedicine System in the Management of Patients at a Short-Term Correctional Facility, *Acad Emerg Med*, 1995;2(5):404.
11. Jehle D, Abrams B, *Sukumvanich P*, Seibel R, **Moscati R**; Ultrasound for the Detection of Intraperitoneal Fluid: The Role of Trendelenburg Positioning, *Acad Emerg Med*, 1995;2(5):407.
12. Jehle D, Lerner E, Janicke D, Wilson D, *Baran S*, **Moscati R**; Medical Communication: Do Our Patients Understand?, *Acad Emerg Med*, 1995;2(5):435.
13. Lockwood AH, Linn RT, Szymanski H, Murphy BW, Coad ML, Paroski M, **Moscati R**, Effects of Mild Traumatic Brain Injury on Cerebral Glucose Metabolism. *Brain* 95, *J Cereb Blood Flow Metabol*. 1995;15(supp 1)S24.
14. Meropol S, **Moscati R**, *Camasto A*, Whitney R; An Emergency Department Screening Program for Adolescents Involved in Alcohol-Related Injuries, *Ann Emerg Med* 1996;27(1):141.
15. Lerner E, Billittier A, **Moscati R**; The Effects of Neutral Positioning With and Without Padding on Spinal Immobilization of Healthy Subjects, *Ann Emerg Med* 1996;27(1):147.
16. Linn R, Lockwood A, Szymanski H, **Moscati R**, Paroski M, Coad M, Murphy B; Cerebral Glucose Metabolism in Mild Traumatic Brain Injury: Initial and 3-Month Postinjury Changes, *J Int Neuropsychol Soc* 1996;2(1):16.
17. Billittier A, Lerner E, **Moscati R**, Young G; Triage, Transportation and Destination Decisions by Out-of-Hospital Emergency Care Providers, *Ann Emerg Med* 1996;27(1):131.
18. Jehle D, Mayrose J, **Moscati R**, Abrams B, Lerner E, Fincher M, Sheldon R; Comparison of Staples Versus Sutures in Penetrating Cardiac Wounds, *Acad Emerg Med* 1996;3(5):509.

19. **Moscati R**, *Reardon R*, Mayrose J, Lerner E, Jehle D; Wound Irrigation With Tap Water? Faster! Cheaper!, Better?, *Acad Emerg Med* 1996;3(5):508.
20. Linn R, Lockwood A, Szymanski H, **Moscati R**, Paroski M, Coad M, Murphy B; Parsing the PASAT: A ¹⁵O-water PET Activation Study in Normal Adults., *J Internatl Neuropsychol Soc* 1997;3:1.
21. Jehle D, Lerner B, **Moscati R**, *Pannimaneni V*, *Carlson C*, Panaro V; High CD-4 Counts as a Predictor of TB in AIDS Patients with Positive AFB Stains, *Acad Emerg Med* 1997;4(5):390.
22. Lerner E, **Moscati R**: Duration of Cervical Spine Immobilization in Patients Cleared by Clinical Criteria Versus Radiographic Criteria, *Ann Emerg Med* 1997;30(3):407.
23. *Haskins P*, Ellis D, Billittier A, **Moscati R**, Krause R: Predicted Use of Telemedicine in Decreasing Ambulance Transports by Emergency Medical Services, *Ann Emerg Med* 1997;30(3):408.
24. Lerner E, Billittier A, *Sikora J*, **Moscati R**, Young G: Use of a Geographic Information System to Determine the Most Appropriate Means of Transport to a Regional Trauma Center, *Acad Emerg Med* 1998;5(5):420.
25. Ellis D, Jehle D, **Moscati R**, Mayrose J, Billittier A: Initial Experience with Rural Hospital Emergency Telemedicine Night Coverage Using an On-site RN and Paramedic Team, *Acad Emerg Med* 1998;5(5):537.
26. Lerner E, Billittier A, **Moscati R**, Adolf J, Lobby R: The Value of Using Fire Engines as First Response Vehicles, *Ann Emerg Med* 1998;32(3):S29.
27. Broderick K, Lerner E, **Moscati R**, *Filice M*, *Hilander S*, *Stopyra J*: A Prospective Study of the Accuracy and Reliability of Urine Dipsticks, *Ann Emerg Med* 1998;32(3):S39.
28. **Moscati R**, Yealy D: The Effect of Multidose Activated Charcoal on Ethanol Elimination, *Ann Emerg Med* 1998;32(3):S54.
29. *Manka M*, **Moscati R**, Mayrose J, Christiansen G, *Treadway R*, Simpkins C: Spectrophotometric Measurement of Diagnostic Peritoneal Lavage Fluid Red Blood Cell Count, *Acad Emerg Med* 1999;6(5):480.
30. Broderick K, **Moscati R**, *Filice M*, Lerner E, *Hilander S*: A Prospective Study of the Accuracy and Reliability of Urine Dipsticks, *Ann Emerg Med* 1999;34(4):S26.
31. Lerner E, **Moscati R**, Janicke D: Comparison of Helmet Use Between Bicyclists and Skaters, *Ann Emerg Med* 1999;34(4):S94.
32. **Moscati R**, *Trippi D*, Bailey G, Krasnoff M: Documentation of Domestic Violence in the Emergency Department Record, *Ann Emerg Med* 1999;34(4):S99.
33. **Moscati R**, Byrnes J, Krasnoff M: Comparison of Selective versus Inclusive Screening for Domestic Violence in the ED, *Acad Emerg Med* 2000;7(5):503.
34. Ellis D, Mayrose J, Jehle D, Billittier A, **Moscati R**, *Phelan M*: Emergency Medicine Roll-About: A New Tool for Academic Emergency Medicine, *Acad Emerg Med* 2000;7(5):543.
35. Lerner EB, Billittier AJ, **Moscati R**: Is Field Endotracheal Intubation Associated with Total Prehospital Time or Patient Outcome in Adult Trauma Patients? *Prehosp Emerg Care* 2001;5:117

36. **Moscati R**, Lerner EB: Validity of Existing Clinical Criteria for Radiographic Ordering to Identify Cervical Spinal Injuries. *Prehosp Emerg Care* 2001;5:119
37. *Brown J*, **Moscati R**, Lerner EB, A Comparison of Prior ED Visits between Domestic Violence Victims and Matched Controls. *Acad Emerg Med* 2001;8(5):461-2.
38. Lerner EB, Billittier AJ, **Moscati R**: Analysis of the Effect of Total Prehospital Time on Patient Mortality. *Ann Emerg Med* 2001;38:S16
39. Lerner EB, Billittier AJ, Oyana TJ, **Moscati R**, Hunt R: Using a Geographic Information System to Identify General Rules for Time-Efficient Trauma Patient Transport. *Ann Emerg Med* 2001;38:S17
40. Manka M, **Moscati R**, Lerner EB, *Zingapan V*: Incidence of Helicobacter Pylori Infection in Patients Presenting to the Emergency Department with Dyspepsia. *Acad Emerg Med* 2002;9(5):381.
41. **Moscati R**, Lerner EB, *Gore R*, Bailey G: Comparison of Documentation of Domestic Violence Identified by Screening Versus Self-Disclosure. *Ann Emerg Med* 2002;40(4)Part2:
42. **Moscati R**, Mayrose J, Priya A: A Meta-Analysis of Wound Irrigation Comparing Tap Water Versus Sterile Saline. In publication
43. *Pawlowski J*, **Moscati R**: Effects of Holidays, Weekends and Seasons on Intimate Partner Violence Incidents. In publication

Book Chapters

1. **Moscati R**: Acute Interstitial Nephritis. in Aghababian, Allison, Braen, Fleisher, McCabe, Moorhead (eds): *Emergency Medicine The Core Curriculum, 2nd Edition*, Lippincott-Raven, Philadelphia, in publication
2. **Moscati R**: Pediatric Sedation in the Emergency Department. in Jenkins, Braen (eds): *Emergency Medicine, 5th Edition*, Lippincott, Williams & Wilkins, Philadelphia, in publication.
3. Reardon R, **Moscati R**: Beyond the FAST Exam: Applications of Sonography in Trauma. in Heller, Jehle (eds): *Ultrasonography in Trauma: The FAST Exam*, American College of Emergency Physicians, Dallas TX, 2003
4. **Moscati R**, Reardon R: Clinical Application of the FAST Exam. in Heller, Jehle (eds): *Ultrasonography in Trauma: The FAST Exam*, American College of Emergency Physicians, Dallas, TX, 2003
5. **Moscati R**: Pediatric Sedation in the Emergency Department. in Jenkins, Braen (eds): *Emergency Medicine, 4th Edition*, Lippincott, Williams & Wilkins, Philadelphia, 2000.
6. **Moscati R**: Acute Interstitial Nephritis. in Aghababian, Allison, Braen, Fleisher, McCabe, Moorhead (eds): *Emergency Medicine The Core Curriculum*, Lippincott-Raven, Philadelphia 1998.
7. **Moscati R**: Cholelithiasis, Cholecystitis and Pancreatitis. in Munter: *Abdominal Emergencies, Emergency Medicine Clinics of North America*, WB Saunders, Philadelphia, Nov 1996.
8. **Moscati R**: Wrist Lunate Dislocation. in Stack, Smith (eds): *Pearls and Pitfalls in Emergency Medicine*, Clinical Communications Inc., 1996.
9. **Moscati R**: Pediatric Sedation in the Emergency Department. in Losconzo, Jenkins, Braen (eds): *Emergency Medicine, 3rd Edition*, Little, Brown & Co, Boston, 1995.

PRESENTATIONS

Regional Presentations

1. **Moscati R**, Moore G; Comparison of Cimetidine and Diphenhydramine in the Treatment of Acute Urticaria. Presented: Tri-Service Symposium for Emergency Medicine 1989, Society for Academic Emergency Medicine Annual Meeting May 1989.
2. **Moscati R**, Yealy D, Ellis J, Hogan D; Multidose Activated Charcoal in the Elimination of Absorbed Ethanol. Presented: Texas ACEP Annual Meeting May 1992, Accepted ACEP Research meeting Oct 1998.
3. **Moscati R**; Ethical and Consent Issues Related to Patient Drug and Alcohol Abuse in the Emergency Room, OPRR, NIH & FDA Workshop on Protection of Human Subjects in Research September 1994.
4. **Moscati R**, Medical Consequences of Violence, at The Many Faces of Violence Conference, sponsored by the Police/Mental Health Coordination Project, Crisis Services Inc., April 1997.
5. **Moscati R**, Assessing Women in the Emergency Department, at Interpersonal Violence The Health Care System's Response to Women; sponsored by The Institute for the Prevention of Violence Against Women, Nov 1998.

National Presentations

1. **Moscati R**, Moore G; Comparison of Cimetidine and Diphenhydramine in the Treatment of Acute Urticaria. Society for Academic Emergency Medicine Annual Meeting May 1989.
2. **Moscati R**, Positron Emission Tomographic Imaging, Technologies Luncheon, Society for Academic Emergency Medicine, Annual Meeting 1993.
3. **Moscati R**, Jehle D, Ellis D, Fiorello A, Landi M; Positive Outcome Bias in the Emergency Medicine Literature. Society for Academic Emergency Medicine Annual Meeting May 1993.
4. Jehle D, **Moscati R**, Ewing J; Bicarbonate As An Independent Predictor of Outcome in Trauma. American College of Emergency Physicians Research Forum March 1994.
5. **Moscati R**, Jehle D, Ellis D, Abrams B, Billittier A, Mayrose J, Seymour J, Mason P; Portable Fluoroscopy for the Evaluation of Extremity Injuries in the Emergency Department, Society for Academic Emergency Medicine Annual Meeting, May 1995.
6. Meropol S, **Moscati R**, Camasto A, Whitney R; An Emergency Department Screening Program for Adolescents Involved in Alcohol-Related Injuries, American College of Emergency Physicians Research Forum, Feb 1996.
7. **Moscati R**, Moderator for Abstract Presentation Section on Imaging, Society for Academic Emergency Medicine Annual Meeting, May 1996.
8. **Moscati R**, Yealy D: The Effect of Multidose Activated Charcoal on Ethanol Elimination, American College of Emergency Physicians Research Forum, Oct 1998.
9. **Moscati R**, Trippi D, Bailey G, Krasnoff M: Documentation of Domestic Violence in the Emergency Department Record, American College of Emergency Physicians Research Forum, Oct 1999.
10. **Moscati R**, Byrnes J, Krasnoff M: Comparison of Selective versus Inclusive Screening for Domestic Violence in the ED, Society for Academic Emergency Medicine Annual Meeting, May 2000.

11. **Moscati R**, Lerner E, Validity of Existing Clinical Criteria for Radiographic Ordering to Identify Cervical Spine Injuries, National Association of Emergency Medical Services Physicians Annual Meeting, Jan 2001.
12. **Moscati R**, Protection of Human Subjects in Prehospital Research, at EMS Research Workshop, National Association of Emergency Medical Services Physicians Annual Meeting, Jan 2002.
13. **Moscati R**, Lerner EB, Gore R, Bailey G: Comparison of Documentation of Domestic Violence Identified by Screening Versus Self-Disclosure. American College of Emergency Physicians Research Forum, Oct 2002.
14. **Moscati R**, Bailey G, Lerner EB, Krasnoff M: Comparison of Outcome for Female Domestic Violence Victims Who Self-Disclose Compared With Those Identified Through an ED Screening Program – An Interim Analysis. American College of Emergency Physicians Research Forum, Oct 2002.
15. **Moscati R**, Protection of Human Subjects in Prehospital Research, at EMS Research Workshop, National Association of Emergency Medical Services Physicians Annual Meeting, Jan 2003.
16. **Moscati R**, Bailey G: Comparison of Outcome for Female Domestic Violence Victims Who Self-Disclose Compared With Those Identified Through an ED Screening Program. American College of Emergency Physicians Research Forum, Oct 2003.

GRANTS

Domestic Violence Emergency Services (DOVES) Program, Emergency Medicine Foundation Health Policy Research Grant, 2001-2003, \$50,000, Primary Investigator

Sonographic Scoring for Operating Room Trauma Triage, Center for Transportation Injury Research, 2001-2002, \$25,000, Co-Investigator

A Multi-Center Clinical Trial of Tap Water for Wound Irrigation, Center for Transportation Injury Research, 1999-2004, \$260,600, Principal Investigator

Spectrophotometry of DPL Fluid to Quantitate Red Blood Cells (Phase III), Center for Transportation Injury Research, 1999-2000, \$58,500, Principal Investigator

Cervical Spine Clearance Evaluation, 1999-2000, Center for Transportation Injury Research, \$38,000, Principal Investigator

Spectrophotometric Analysis of Diagnostic Peritoneal Lavage Fluid Phase II, 1998-1999, Center for Transportation Injury Research, \$14,089, Principal Investigator

Reducing Domestic Violence in Erie County through Identification and Linkage, 1997-1999, Health Care Emergency Response Domestic Violence Project, New York State Department of Health, \$343,000 - Co-Principal Investigator

Enhancement of Emergency Medicine Training Through the Use of a World Wide Web Site, 1996-97, Innovations in Medical Education, Emergency Medicine Foundation/Society for Academic Emergency Medicine. \$3,000 - Primary Investigator

Enhancement of Emergency Medicine Training Through the Use of a World Wide Web Site, 1995-96, Faculty Grant Program of Instructional Technology Services - SUNY at Buffalo. Faculty Project Coordinator

Survey of Bicycle and Pedestrian Injuries, 1995-1996, Subcontracted from University of North Carolina Highway Safety Research Center. \$12,500 - WNY Site Director/ Co-Investigator

Evaluation of a Personal Computer-Based Telemedicine System for Radiographic Assessment of Emergency Medical Conditions, 1995, Emergency Medical Foundation - Medical Student Research Grant. \$2400 - Faculty/Associate Investigator

Impact of an Emergency Telemedicine System on a Rural Hospital Emergency Department Staffed with Physician Assistants, 1995, New York State Department of Health. \$413,700 - Consultant

Comparison of Fluoroscopy and Radiography in the Diagnosis of Extremity Fractures in the Emergency Department, 1994, Emergency Medical Foundation- Medical Student Research Grant. \$2400 - Faculty Preceptor/Primary Investigator

An Intervention Program for Adolescents Involved in Alcohol-Related Injuries, 1994, Primary Care Resource Center. \$4,955 - Co-investigator

Alcohol-Related Unintentional Injuries in Children and Adolescents, 1993, Research For Health in Erie County. \$15,700 -Co-investigator

A Prospective Analysis of Blood/Body Fluids in the Prehospital Setting: Role of a Protocol Form for Improving Emergency Department Management, 1993, Research For Health in Erie County. \$11,325 - Co-investigator

Positron Emission Tomography In Mild Traumatic Brain Injury, 1993-1996, National Institute of Disability and Rehabilitation Research. \$369,000 - Co-investigator