

## **CURRICULUM VITAE**

**NAME:** Paul P. Rega, M.D., F.A.C.E.P.

**OFFICE ADDRESS:** ProMedica Transportation Network  
The Toledo Hospital/Toledo Children's Hospital  
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Toledo, OH 43606  
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### **PERSONAL CONTACT INFORMATION:**

(419) 779-1251 (Cell)  
[NDMSMD@aol.com](mailto:NDMSMD@aol.com) (e-mail)

**DATE OF BIRTH:** September 4, 1948

**MARITAL STATUS:** Married, 2 children

### **EDUCATION:**

Undergraduate: Fordham College, Bronx, NY  
B.A. 1966-1970  
Medical School: University of Rome, Rome, Italy  
M.D. 1970-1975  
Internship: Framingham Union Hospital, Framingham, MA  
July, 1976 – June, 1977  
Residency: Medical College of Ohio, Toledo, OH  
July, 1977 – June, 1979  
Fellowship: St. Vincent Hospital, Toledo, OH  
July, 1979 – June, 1980

### **AFFILIATION:**

Adjunct Professor  
Department of Public Health and Homeland Security  
College of Medicine  
Health Science Campus of the University of Toledo 2006-present

Medical University of Ohio  
Adjunct Associate Professor  
Department of Public Health  
School of Allied Health 2004 -- 2005

Independent Contractor (ERRATA-LLC)  
Department of Public Health & Homeland Security  
Medical University of Ohio, Toledo, OH 2004 – present

Emergency Physician Bay Park Community Hospital, Oregon, OH	2002 – present
Program Manager, Health/Medical Community Center for Terrorism Preparedness University of Findlay	2001 – 2004
Flight Physician ProMedica Air and Mobile, Toledo, OH	2000 – present
Emergency Physician The Toledo Hospital/Toledo Children’s Hospital	1980 – present
Medical College of Ohio at Toledo, OH Clinical Assistant Professor Department of Family Practice	1979 – 1990

**EDUCATIONAL ACTIVITIES:**

Acupuncture Training at UCLA School of Medicine 300 CME Hours	1998
Senior Instructor in Invasive Emergency Techniques S. Vincent/The Toledo Hospital, Emergency Medicine	1979 – 1994

**LICENSURE:**

Ohio – License #44368  
Maryland – License #D22607  
Michigan – License #4301071064

**CERTIFICATION:**

Diplomate of the American Board of Emergency Medicine	2001 – 2011
	1991 – 2001
	1981 – 1991
Board Certified, Pediatric Emergency Medicine	1997 – 2007
Paramedic Instructor - #1009111	1997
ATLS Certified	1995 – 2003
Examiner – American Board of Emergency Medicine	1988 – 1991
Instructor – BTLS	1987 – 1991
Instructor – ACLS	1979 – 1998

**MEMBERSHIPS:**

The Bay Park Community Hospital Medical Staff Senior Medical Officer,	2002 – present
OH-1 Disaster Medical Assistance Team, NDMS	1999 – 2004

First Chair, National Association of Disaster Medical Assistance Teams	1996 – 1997
Founder/Medical Commander, OH-1 Disaster Medical Assistance Team, NDMS	1985 – 1999
Board of Trustees – American Heart Association/Lucas County	1984 – 1986
Chairman, Emergency Cardiac Care Committee, American Heart Association/Lucas County	1984 – 1987
Affiliate Faculty Member (ACLS), American Heart Association/Ohio	1980 – 1990
The Toledo Hospital Medical Staff	1980 – present
American College of Emergency Physicians	1979 – present
Academy of Medicine/Toledo & Lucas County	1979 – present
American Medical Association	1979 --present
Emergency Medicine Residents Association	1979

**PERSONAL INTERESTS:**

Traveling, Painting, Creative writing, Physical fitness, Reading, Blogging

**ADDITIONAL LANGUAGES SPOKEN:**

Italian

**PROFESSIONAL ACTIVITIES:**

Member, Board of Directors, Omni Administrative Services	2006
Co-Chair, Policy & Procedures Committee, NWOHio RMRS	2004 - present
Director, Disaster Management, Omni Health Services	2004 - present
President, ERRATA-LLC (a company devoted to all-hazards education and consultation)	2003 - present
Member, QA Committee, Omni Health Services	2003 – present
Chairman, Medical Subcommittee, Toledo/Lucas County Metropolitan Medical Response System	2000 - present
Medical Director, Disaster Committee, The Toledo Hospital/ Toledo Children’s Hospital	1999 – 2002
Projects Coordinator, the Toledo Hospital, Emergency Department	1999 – 2002
Community Health Commission, Academy of Medicine, Toledo/Lucas County	1997
EMS Liaison, The Toledo Hospital Emergency Center	1995 – 2002
EMS Advisory Committee, Penta County Vocational School, EMS Training Program	1995 – 1997
Practitioner, Hyperbaric Center, The Toledo Hospital	1988 – present
Founder & President, MASCAP, Inc. (a company devoted to the research and development of disaster management and	

educational products).	1990 - present
Risk Manager, The Toledo Hospital Emergency Center	1987 – 2002
Reviewer, <u>Practical Reviews in Emergency Medicine</u>	1980 – present

**EDUCATIONAL ACTIVITIES:**

Medical Director, EMT Technology Program,  
University of Toledo 1989 – 2000

Faculty, St. Vincent’s Medical Center/The Toledo  
Hospital Emergency Medicine Residency Program 1979 – 1999

**DISASTER-RELATED ACTIVITIES:**

Senior Medical Officer – Toledo Disaster Medical Assistance Team  
(OH-1/NDMS)

1. Response team to Ft. Jackson, SC, Hurricane Floyd, 1999.
2. Response team to NATO Summit, Washington, D.C., 1999.

Medical Officer

1. Response to Red River Floods, North Dakota, 1997.

Medical Commander

1. Response team to Hurricane Marilyn, Virgin Islands, 1995.
2. Response team to Hurricane Andrew, Florida, 1992.

**PUBLICATIONS/PRESENTATIONS:**

1. Rega P, Burkholder-Allen K, Budd C. A Hospital Template Tool-Kit for the Efficacious Evaluation and Management of a Botulism Mass-Casualty Incident. Accepted for presentation at the 15<sup>th</sup> World Congress on Disaster and Emergency Medicine, 5/13-5/16, 2007, Amsterdam, The Netherlands.
2. Burkholder-Allen K, Rega P. The Bioterrorism Preparedness and Response Wall Chart. *Prehospital and Disaster Medicine* 2005; 20(2): s58.
3. Rega P, Burkholder-Allen K, Budd C, Bisesi M. The Global Epidemic Recognition and Management (GERM) Chart: A Prototype. *Prehospital and Disaster Medicine* 2005; 20(2): s56.
4. Burkholder-Allen K, Rega P. The Bioterrorism Preparedness and Response Wall Chart. 14<sup>th</sup> World Association of Disaster and Emergency Medicine Conference, Edinburgh, Scotland, May 19, 2005.
5. Rega P, Burkholder-Allen K, Budd C, Bisesi M. The Global Epidemic Recognition and Management (GERM) Chart: A Prototype. 14<sup>th</sup> World Association of Disaster and Emergency Medicine Conference, Edinburgh, Scotland, May 19, 2005.
6. Rega P. Doctors and Bioterrorism. *The Lancet* 2005; 365:844.

7. DiCecco R, Rega P. The Application of Heliox in the Management of Croup by an Air Ambulance Service. *Air Med J* 2004; 23:33-35.
8. Budd C, Burkholder-Allen K, Rega P, Vasquez K. AHEC in the Age of Terrorism. *The National AHEC Organization Bulletin*. Autumn, 2003.
9. Rega, P. "Bioterrorism" in *Emergency Medicine – On Call*; August, 2003 by Appleton & Lange, Stanford. Editors: Keim SM, Gomella, LG.
10. Burkholder-Allen, K., Rega, P. "What We Learned From Silent Vector." February 7, 2003.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
11. Rega, P., Burkholder-Allen, K. "Elderly/Disabled: Concerns in Disaster Response." January 30, 2003.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
12. Rega, P., Burkholder-Allen, K. "Smallpox." January 21, 2003.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
13. Rega, P. "The Emergency Physicians on the Frontline Against Bioterrorism." *Business Briefing: Global Healthcare*. 2002, Issue 3.
14. Rega, P., Batts-Osborne, D., et al: "Glanders and Melioidosis." *EMedicine Journal*, October 16, 2002: Vol. 2, Number 10. Revised 4/05.
15. Burkholder-Allen, K., Rega, P. "General Healthcare and Preparedness." August 26, 2002.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
16. Rega, P., Burkholder-Allen, K. "Model State Emergency Health Powers Act." August 11, 2002.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
17. Rega, P., Burkholder-Allen, K. "Collinwood, Ohio – Disaster of 1908." June 27, 2002.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
18. Burkholder-Allen, K., Rega P. "Children and Weapons of Mass Effect: A Disproportionate Danger." May 7, 2002.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
19. Rega, P., Burkholder-Allen, K. "A Timeline of the 1947 of the Smallpox Outbreak in New York City." May 7, 2002.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
20. Rega, P., Burkholder-Allen, K. "Disaster Dehydration in Infants and Toddlers." February 22, 2002.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
21. Rega, P., Mowatt-Larssen, E., Sole, D.P., "Irritants: Cs, Cn, Cnc, Ca, Cnb, PS." *EMedicine Journal*. January 22, 2002. Vol. 3, Number 1. Revised 4/05.
22. Rega, P., Burkholder-Allen, K. "Evaluating Respiratory Distress and Failure in a Terrorist Victim, a Primer for the Nontraditional First Responder/Caregiver." January 8, 2002.  
<http://seem.findlay.edu/PubInfoPages/default.asp>

23. Rega, P., Burkholder-Allen, K. "Anthrax Bioterrorist Attack." November 26, 2001.  
<http://seem.findlay.edu/PubInfoPages/default.asp>
24. Rega, P., Mowatt-Larssen, E., Vollmer, T. "Lung-Damaging Agents, Diphosgene." *EMedicine Journal*. October 17, 2001. Vol. 2, Number 10. Revised 4/05.
25. Rega, P. "Health Consequences and Response." NDMS Response Team Training Program. 2001. <http://ndms.dhhs.gov>
26. Rega, P. "Intraosseous Infusion." NDMS Response Team Training Program. 2001. <http://ndms.dhhs.gov>
27. Rega, P. "A,B,Cs of Bioterrorism." NDMS Response Team Training Program. 2001; revised 2004. <http://ndms.dhhs.gov>
28. Columbo, J.B., Peterson, W., Thackeray, J., Rega, P., et al. "Disaster Medical Education in Medical School Curricula." *Annals of Emergency Medicine*. 2000. 35 (5) s. 45 (abstract).
29. Rega, P. "Disaster Medicine Education for Primary Care Physicians and Physician Extenders." *Annals of Emergency Medicine*. 2000. Mar 35 (3): 314-316, letter.
30. Rega, P., Burkholder-Allen, K. "Collinwood: Anatomy of a Disaster." *Prehospital Disaster Medicine*. Oct.-Dec., 1999; 14 (4): 265-9.
31. Rega, P. "Acupuncture and Disaster Medicine." *Annals of Emergency Medicine*. October, 1999 (letter).
32. Fenn, J., Rega, P., Stavros, M. "Assessment of U.S. Helicopter Emergency Medical Services' Planning and Preparedness for Disaster Response." *Air Medical Journal*. Jan-Mar, 1999, 18:1.
33. Rega, P., Budd, C., Burkholder-Allen, K. "OUTREACH: Another DMAT's Perspective" (Letter to the Editor); accepted for publication. *Prehospital and Disaster Medicine*. 1998.
34. Rega, P. "Cold Weather Disasters: Management and Resource Issues." *Ohio EMS Journal*. Winter, 1997.
35. Brickman, K., Rega, P., Schoolfield, L., et al. "Investigation of Bone Development and Histopathologic Changes from Intraosseous Infusion." *Annals of Emergency Medicine*. October, 1996. 28:4.
36. Stavros, M., Rega, P., Fenn, J., Fenn-Buderer, N. "Assessment of Helicopter Emergency Medical Services Planning and Preparedness for Disaster Response in the United States." *Academic Emergency Medicine*. 3(9), September 1996 (abstract). Also published in *Air Medical Journal*, 15(3), 1996 (abstract). Presented at 1996 Mid-Western/Mid-Atlantic Regional Emergency Medicine Research Symposium, April 17, 1996, West Virginia University, WV.
37. Burkholder-Allen, K., Rega, P., Budd, C. "Analysis of Patient Satisfaction with One DMAT's Performance during Hurricane Andrew Relief Efforts." *Prehospital and Disaster Medicine*. Volume 10, #1, January, 1995 (abstract). Presented at Disaster

- Medicine Issues Second Annual Symposium, Albuquerque, NM, October 14-15, 1994.
38. Brickman, K., Krupp, K., Rega, P., Alexander, J., Guinness, M. "Typing and Screening of Blood from Intraosseous Access." *Annals of Emergency Medicine*. April, 1992. 21(4): 414-7.
  39. Brickman, K., Rega, P., Choo, M., Guinness, M. "Comparison of Serum Phenobarbital Levels after Single Versus Multiple Attempts at Intraosseous Infusion." *Annals of Emergency Medicine*. January, 1990. 19(1): 31-3.
  40. Hogan, J., Rega, P., Forkapa, B. "A Civilian-Sponsored DMAT: A Community's Collaboration Among Three Hospitals." *Journal of Emergency Nursing*. July-August, 1990. 16(4): 245-7.
  41. Rega, P., Krupp, K., Brickman, K., Alexander, J., Guinness, M. "Bone Marrow Study." *Annals of Emergency Medicine*. July, 1989. 18(7): 802.
  42. Rega, P., McConnaughy, D. "A Dynamic Prototype to Facilitate Education in the Management of Mass Casualty Incidents." Accepted for presentation at the Congress of Emergency and Disaster Medicine, Piestany, Czechoslovakia, October 23-25, 1989.
  43. Rega, P., Krupp, K., Brickman, K., Alexander, J., Guinness, M. "Bone Marrow Study." *Annals of Emergency Medicine*. 1989. 18:802 (letter).
  44. Brickman, K., Rega, P., Guinness, M. "Intraosseous Infusion: Rapid Vascular Access in Critically Ill Children." *Emergency Medical Services Journal*. July, 1989.
  45. Brickman, K., Rega, P., Koltz, M., Guinness, M. "Analysis of Growth Plate Abnormalities Following Intraosseous Infusion through the Proximal Tibial Epiphysis in Pigs." *Annals of Emergency Medicine*. February, 1988.
  46. Brickman, K., Rega, P., Guinness, M. "A Comparative Study of Tibial Intraosseous Versus Peripheral Intravenous Infusion in Dogs." *Annals of Emergency Medicine*. October, 1987.
  47. Brickman, K., Rega, P., Guinness, M. "Comparison of Intraosseous, Intra-arterial and Central Venous pH and pCO<sub>2</sub> Alterations during Hypoventilation in Dogs." *Annals of Emergency Medicine*. 1987. 16:488 (abstract).
  48. Brickman, K., Rega, P., Koltz, M., Guinness, M. "Analysis of Growth Plate Abnormalities Following Intraosseous Infusions through the Proximal Tibial Epiphysis in Pigs." *Annals of Emergency Medicine*. 1987. 16:488 (abstract).
  49. Brickman, K., Rega, P., Koltz, M., Guinness, M. "Comparative Study of Intraosseous Versus Intravenous Infusion of Diazepam." *Annals of Emergency Medicine*. 1986. 15:15 (abstract).
  50. Brickman, K., Rega, P., Guinness, M. "Comparative Study of Intraosseous Versus Intravenous Infusion of Phenobarbital." *Annals of Emergency Medicine*. 1986. 15:644 (abstract).

## PERSONAL LECTURES:

1. "Chemical Terrorism: Nerve Agents and Cyanide – Manifestations and Management." Spring Trauma Update, ProMedica Health System, Trauma Services, Toledo, Ohio. May 12, 2006
2. "Hypothermia." ProMedica Transport Network Annual Winter Conference Series. Perrysburg, Ohio. January 20, 2006.
3. "The Role of the Trauma Team in This Age of Uncertainty: Possibilities and Probabilities." Sixth Trauma Symposium of the Northwest Ohio Regional Trauma Registry. Toledo, OH. November 21, 2005.
4. "It's More Than Just Surge Capacity." Nurse Executives/Educators, Hospital Council of Northwest Ohio. Toledo, OH. November 11, 2005.
5. "Medical Volunteerism in Disasters". Regional Medical Response System, Northwest Ohio. Toledo, OH. September 6, 2005.
6. "A Botulism Table-Top". Metropolitan Chicago Healthcare Council's Annual Bioterrorism Conference. Chicago, IL. June 23, 2005.
7. "Care and Treatment of the Chemical and Biological Terrorism Victim". Grady Memorial Hospital, Delaware, Ohio. May 31, 2005.
8. "Nuances in Bioterrorism". Emergency Nurses Association Leadership Challenge 2005. Ft. Lauderdale, FL. March 10-13, 2005
9. "Terrorism and the Health Care Professional." The Toledo Hospital Department of Radiology Symposium: Terrorism Awareness in Health Care. Toledo, Ohio. November 6, 2004.
10. "Epidemics in American History: The Good, The Bad, and The Ugly." St. Rita's Medical Center Infectious Control Symposium. Lima, Ohio. September 13, 2004.
11. "An Overview of Biological Terrorism." Grady Memorial Hospital, Delaware, Ohio. September 30, 2004.
12. "Terrorism: A Three Hour Tour." Defiance County Medical Reserve Corps. Defiance, OH. September 17, 2004.
13. "Introduction into Bioterrorism." MedCentral Health System, Mansfield, OH. July 26, 2004.
14. "The A,B,Cs of Bioterrorism." Doctors Hospital of Stark County, Ohio. June 21, 2004.
15. "Bioterrorism Overview." Ohio State University Hospitals, Columbus, OH. June 22, 2004
16. "Introduction to Chemical and Radiological Terrorism." Bay Park Community Hospital. Oregon, OH. May 12, 2004.
17. "SARS". Northwest Ohio APIC Conference. Toledo, Ohio. April 29, 2004.
18. "Terrorism 101". Ohio State Society of American Medical Technologists 2004 Spring Seminar. Defiance, Ohio. April 17, 2004.
19. "Introduction to Bioterrorism." Bay Park Community Hospital. Oregon, OH. April 12, 2004.

20. "Introduction to Explosives." Bay Park Community Hospital. Oregon, OH. March 12, 2004.
21. "Hospital Management of the Radioactively-Contaminated Patient." St. Vincent's Medical Center. Dec. 12, 2003.
22. "Bioterrorism: Beyond Anthrax, Beyond Smallpox." St. Luke's Hospital Medical Staff Conference. August 5, 2003.
23. "Triad of Local, Community, and State Preparedness for Radiological Incidents." Homeland Security Great Lakes Region Conference. Huron, Ohio. August 27, 2003
24. "Bioterrorism & SARS: A Three Hour Tour." St. Rita's Medical Center Infectious Control Symposium. Lima, Ohio. September 17, 2003.
25. "Smallpox Update." Fremont Memorial Hospital Medical Staff. Fremont, OH. January 23, 2003.
26. "A Bioterrorism Primer." 13<sup>th</sup> Annual North Coast Pulmonary Disease Seminar (American Lung Association). Port Clinton, OH. November 13, 2002.
27. "Bioterrorism 101." Ohio Lakeshore Emergency Nurse Association Annual Conference. Sandusky, OH. October 12, 2002.
28. "Smallpox: The Next Bioterrorist Threat." The Toledo Hospital/Toledo Children's Hospital. Toledo, OH. May 29, 2002.
29. "The ABC's of Proper Disaster Response." Ohio Alliance for the Environment Spring Conference. University of Findlay. April 11, 2002.
30. "Testing Readiness for Bioterrorism – One Health Care Systems' Experience." Ohio Hospital Association's Annual Meeting. Columbus, Ohio. Summer, 2002.
31. "Awareness of Biological Agents." Emergency Medicine Update. Middleburg Heights, Ohio. October 20, 2001.
32. "Bio Terrorism." Great Lakes Emergency Medical Association EMS Conference. Perrysburg, Ohio. October 13, 2001.
33. "DMAT Development and the OH-1 Team: Where We Were, Where We Are Now.", "Crush and Compartment Syndromes: Recognition and Treatment.", "START Triage in Disasters.", "Intraosseous Infusion for DMATs.", "Biological Agents.", and the "Introduction of Bio-Terry.", "Personal and Family Disaster Preparedness." South/Central Taiwan DMAT Training and Development Program. Tainan, Taiwan. August, 2000.
34. "Essentials of Disaster Medicine for the Nurse Practitioner." Fifteenth National Conference of the American Academy of Nurse Practitioners. July, 2000.
35. "Disaster Medicine at the Crossroads: Easing the Transition and Bridging the Gap." Thirty-third Annual Society of Teachers of Family Medicine Conference. Orlando, Florida. May, 2000.
36. "Potpourri of Disaster Medicine." Second Annual Conference on Catastrophes. Medical College of Ohio. Toledo, OH. April 8, 2000.

37. "Scope of Disaster Medicine: Prehospital to Hospital." Fourth Biannual CEU Workshop for Certified Sterile Processing and Distribution Technicians. The Toledo Hospital. November 6, 1999.
38. "Bioterrorism." Lucas County EMS Continuing Education. October, 1999.
39. "Acupuncture and Disaster Medicine." NATO/NDMS Deployment. June, 1999.
40. "The Development of a DMAT." Youngstown DMAT Conference. October, 1997.
41. "Fluid Resuscitation in Disasters – Delivering Health and Medical Services in Catastrophic Disasters." NDMS Annual Conference. May 3-7, 1997.
42. "Disaster Response: When the Responders are also the Victims." Mary Rutan Hospital/Ohio State University Tenth Annual Cardiology Symposium. Bellefontaine, OH. February 27, 1997.
43. "Multi-Casualty Incident Management, Hurricane Marilyn." The Response – Delivery of Health and Medical Services in Catastrophic Disasters Conference. San Diego, CA. March 16-21, 1996.
44. "START Triage." Toledo Area DMAT Fall Exercise. Toledo, OH. 1996.
45. "Disaster Medicine." Ohio EMS Conference. Toledo, OH. June 22-25, 1995.
46. "Observation on Crisis Communications: Challenges While Serving on DMAT." Communications Seminar, Paul Fritz, Associate Professor. University of Toledo. Toledo, OH. October, 1995.
47. "Environmental Heat Illness, Traveler's Diarrhea, Water Disinfection." Toledo Area DMAT Fall Exercise. Toledo, OH 1995.
48. "Carbon Monoxide and the Fetus." Fourth Annual Mid-States Symposium on Diving and Hyperbaric Medicine. Toledo, OH. October, 1993.
49. "Intramedullary Cellular Changes with Intraosseous Infusion of Hypertonic Solutions at Variable Rates." Presented at the SAEM conference in Cambridge, England. September, 1993.
50. "The ABC's of Disaster Management – When the Heat is On...IX". St. Vincent Medical Center. Oregon, OH. April 17, 1993.
51. "Air Medical Services in Disaster Planning." Ohio AAMS/NFNA 1993 Conference. Oregon, OH. April 16, 1993.
52. "A New EMS Incident Command System." Presented at Seventh World congress on Emergency and Disaster Medicine. Montreal, Quebec, Canada. May 13-16, 1991.
53. "Prototype: The Emergency Department Command System." Presented at the Seventh World Congress on Emergency and Disaster Medicine. Montreal, Quebec, Canada. May 13-16, 1991.
54. "An Extra Dimension in Disaster Management." Presented at the Seventh World Congress on Emergency and Disaster Medicine. Montreal, Quebec, Canada. May 13-16, 1991.
55. "CO Poisoning." The Toledo Hospital MICU Conference. Toledo, OH. Summer, 1991.

56. "CO, HBO, and Pregnancy." The Toledo Hospital Conference on Hyperbaric Medicine. Toledo, OH. Fall, 1990.
57. "A Protocol for Intraosseous Infusion in the Pediatric Patient." Presented at the Sixth World Congress of Emergency and Disaster Medicine. Hong Kong. September 10-15, 1989.
58. "A New Efficacious Method to Secure an Emergency Thoracostomy Tube." Presented at the Sixth World Congress of Emergency and Disaster Medicine. Hong Kong. September 10-15. 1989.
59. "A Method to Objectively Evaluate Disaster Teams During Mock Disasters." Presented at the Sixth World Congress of Emergency and Disaster Medicine. Hong Kong. September 10-15. 1989.
60. "HBO Therapy: An Overview." The Toledo Hospital/St. Vincent Medical Center Emergency Medicine Grand Rounds. Toledo, OH. January, 1989.
61. National Disaster Medical System: A) EMS Council, Regional Emergency Medical Services of N.W. Ohio, B) Academy of Medicine/Toledo-Lucas County, Toledo, OH, 1985. C) Emergency Nurses Association of N.W. Ohio, Toledo, OH, 1986. D) St. Vincent Medical Center, Toledo, OH, 1988. E) St. Charles Hospital, Toledo, OH, 1988.
62. "The Application of Intraosseous Infusions in Mass-Casualty Incidents." International Urban Emergency Medical Services Symposium. Beijing, People's Republic of China. November, 1987.
63. "The Public Response in a Mass Casualty Incident." Midwest District of the American Alliance for Health, Physical Education, Recreation and Dance. Chicago, IL. February, 1987.
64. "Principles of Triage." Disaster Action Committee. Toledo, OH. 1984.
65. "Disaster Management." Mt. Sinai Hospital Emergency Medicine Program. Cleveland, OH. 1984.
66. "Disaster Management." The Toledo Hospital/St. Vincent Medical Center Emergency Medicine Program. Toledo, OH. 1984.

### **SPECIAL PROJECTS:**

1. Project Team Member, **2007 Northwest Ohio Regional Functional Exercise**; University of Toledo, Health Sciences Center, Department of Public Health & Homeland Security.
2. Project Team Member, **Pandemic Flu Functional Exercise for Northwest Ohio**; MUO & ERRATA-LLC, May 10-11, 2006.
3. Co-creator and developer of **CADRE** (Comprehensive Advance Disaster Response & Education) – an 8 hour seminar for hospital personnel that expands upon the **HARRT** course by providing an in-depth tactical approach to disaster preparedness and response. Sponsored by the Ohio Hospital Association and conducted April 11, 2006 in Columbus, Ohio.
3. Member, Technical Committee, **"Hospital Mass Decontamination"** (VHS/DVD); Emergency Film Group, Edgartown, MA; 2006.

4. Lucas County EMS 3-hour seminar: **Disaster Preparedness and Response Table-Top/Lecture**. January, 2006. Prepared and conducted by ERRATA-LLC.
5. Co-creator and developer (ERRATA-LLC) of *ProjectDisaster.com* and *DisasterKIDS.com*, interactive (print, audio, and video) websites devoted to the dissemination of disaster information. January, 2006.
6. Project Team Member, **Bioterrorism Functional Exercise Project Team** for Bioterrorism Functional Exercise Templates for Ohio; MUO & ERRATA, LLC., 4/05.
7. Author, *Chem-Terry: A Recognition and Response Guide for Chemical Agents of Terrorism (CD)*. Published by MASCAP Inc., March, 2005.
8. Co-creator and developer of *HERRT* (Hospital Emergency Recognition and Response to Terrorism) – a 4 hour seminar specifically created to address the specific educational needs of Emergency Department personnel during a terrorism response, 10/12/04 Toledo, Ohio, 11/8/04 Sandusky, Ohio, 11/29/04 Fostoria, Ohio, 1/10/05 MCO PA Program, Toledo, Ohio, 1/11/05 & 2/15/05 Wauseon, Ohio. Funded through a grant from the Ohio Department of Health. Collaborators: K. Burkholder-Allen RN and C. Budd, RN.
9. Co-creator and developer of *ACORNE* (All-hazard Catastrophes: Overview and Response for Nurse Educators) – a 16 hour seminar, didactics, exercises, and CD-ROM supplement for nurse educators of Northwest Ohio, 9/24/04-9/25/04. Funded by a grant from the Ohio Department of Health. Collaborators: K. Burkholder-Allen RN, C. Budd, RN & M. Bisesi, PhD. A second, revised presentation was conducted, in collaboration with Dr. Michael Bisesi, at the Medical University of Ohio College of Nursing, Toledo, Ohio, May 18, 2006.
10. Co-creator and developer of *DIRRC* (Disasters: Interdisciplinary Recognition and Response Course) – an on-line and classroom seminar for students of the Medical College of Ohio presented 4/04 & 4/05. Collaborators: K. Burkholder-Allen RN, C. Budd, RN & M. Bisesi, PhD.
11. Creator and presenter: “**A Botulism Table-Top**”. Metropolitan Chicago Healthcare Council’s Annual Bioterrorism Conference. Chicago, IL. June 23, 2005.
12. Technical Committee Member, Consultant: *Radiological Terrorism* (VHS/DVD). Emergency Film Group, Edgartown, MA. 2004.
13. Co-creator and developer of *HARRT* (Hospital All-Hazards Recognition and Response Training)—an 8 hour seminar for hospital personnel at all levels linking disaster management principles with anti-terrorism preparedness and response; sponsored by The Ohio Hospital Association and conducted in principal cities in Ohio (11/18/03, 12/02/03, 12/09/03, 1/27/04, 10/26/04 and 4/05). Collaborators: K. Burkholder-Allen RN & C. Budd RN
14. Technical Committee Member, Consultant: *Terrorism: Medical Response* (VHS/DVD). Emergency Film Group, Edgartown, MA. 2002.

15. Author, *Bioterrorism for Physicians: A Practical Approach*. CD ROM and on-line lecture for World Medical Leaders (WML.com), 2002.
16. Consultant and Author of Foreword for ***Bioterrorism: How to Survive the 25 Most Dangerous Biological Weapons***. Kennsington Books, New York City, 2002.
17. Co-creator and developer of **BATELS** (Basic Anti-Terrorism Emergency LifeSavingSkills course) - a 4-, 6-, and 8 hour seminar for the lay public, disaster management officials and health care professionals. Presented to University of Findlay students and Medical University of Ohio medical students and residents 2001, 2002, 2003. Also presented throughout Ohio as a “train-the-trainer” program under an AHEC grant in 2002-2003. Collaborators: K. Burkholder-Allen RN & C. Budd RN.
18. Co-creator and developer of the ***Bioterrorism Recognition and Response Wall Chart*** that has been distributed to all hospitals throughout the United States under an MIPT grant (~5,000); approximately another 3,000 have been distributed to emergency physicians, EMS agencies, schools and security departments. 2002-2003.
19. Creator, ***Bio-Terry Quik-Vu Cards I & II***- A Rapid Reference to Recognize Signs and Symptoms of Bioterrorist Agents, 2001 & 2003.
20. Developer of educational content regarding recognition of and response to biological terrorism for *Physician On-Line* and *Practical Reviews in Emergency Medicine* websites, 2001.
21. Author, ***Bio-Terry: A Stat Manual to Identify and Treat Diseases of Biological Terrorism***. Published by ProMedica Air and Mobile Medical Transportation Network, ProMedica Health System, 2000 and by MASCAP, Inc., 2001; revised 2002, 2003, 2006. Subsequently peer-reviewed and published in German for German and Austrian markets, 2002.
22. Creator, ***Emergency Department MCI Command System*** (a commercial product to improve ED efficiency during a disaster), 1994
23. Creator, ***MASCAP-HAT*** (a health care facility personal identification system to improve security at a health care facility during a disaster), 1992.
24. Creator, ***MASCAP-SAT*** (a scene access personal identification system to improve security and accountability at a disaster site), 1991.
25. Creator, ***The Mass Casualty Planner*** (an educational product to instruct students on disaster scene management), 1989.
26. Producer, Director, Co-author, ***Intraosseous Infusion: Step-by-Step*** (VHS). Collaborators: F. Foss, MD, K. Brickman, MD. 1992.

## GRANTS:

1. Oklahoma City National Memorial Institute for the Prevention of Terrorism (2002):
  - a) Principal investigator for the development, distribution, and assessment of a **Biological Terrorism Recognition and**

**Response Wall Chart** that has been disseminated to all hospitals in The United States and other anti-terrorism response agencies and health care providers.

Co-investigator: K. Burkholder-Allen, RN.	\$ 69,750.00
2. National Area Health Education Center (2002)	
a) Develop and institute an educational seminar including a train-the-trainer program entitled <b>BATELS</b> (Basic Anti-Terrorism Emergency Life-Saving Skills course) to underserved health care providers. Co-creators: K. Burkholder-Allen, RN & C. Budd, RN.	\$35,560.00
3. Douglas Foundation (1985-1992)	
a) Intraosseous...Phenobarbital	\$ 4,500.00
b) Intraosseous...Diazepam	\$ 4,204.20
c) Comparison of Intra-arterial, I.V. & Intraosseous...Diazepam in Dogs	\$ 5,383.75
d) Intraosseous Growth Plate Abnormalities	\$ 4,450.00
e) Intratracheal, Intraosseous Lidocaine	\$ 5,000.00
f) Intraosseous...Traumatized Bone	\$ 4,800.00
g) Intraosseous...Type & Cross	\$ 4,700.00
h) Intramedullary Cellular Changes from Intraosseous Infusion at Various Infusion Rates	\$ 10,000.00

#### **AWARDS:**

1. Certificate of Outstanding Achievement for contributions related to the web-based NDMS Response Team Training Program. NDMS, August, 2001.
2. Citizen of the Month from the Office of the Mayor, City of Toledo, Ohio for efforts related to the training of the Taiwan National Disaster Medical Assistance Team. August, 2000.
3. Recognition and appreciation of outstanding contributions toward the health and medical response to Hurricane Andrew and Hurricane Marilyn by the Federal Disaster Service, 1995 and 1992.
4. Outstanding Attending Physician of the Year. St. Vincent Medical Center/The Toledo Hospital Emergency Medicine Residency Program. 1988-1989.

#### **MISCELLANEOUS:**

1. Co-developer of the Bioterrorism Response Plan for The Toledo Hospital/  
Toledo Children's Hospital, Toledo, Ohio. 2001.
2. Co-developer of the Anthrax Bioterrorist Disaster Drill at Fostoria Community  
Hospital, Fostoria, Ohio. 2001.
3. Member, Training/Q.A. Committee, Lucas County EMS. 1997.
4. Medical Director, 180<sup>th</sup> Air National Guard Fire Department. 1996-1998.

5. Member, Medical Advisory Committee, Lucas County EMS. 1994 -2002.
6. Member, Senior Advisory Committee, Lucas County EMS. 1994 -1997.
7. BLS Medical Director, Toledo Fire Department. 1989-1991
8. Developer, Radiation Disaster Protocol for  
The Toledo Hospital. 1985.
9. Founder, Toledo Disaster Action Committee. 1984.
10. Developer, Radiation Disaster Protocol for the Medical College of Ohio,  
Toledo, Ohio. 1980.

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