

Andrew Coleman Bernard

General Information

Division of General Surgery
Department of Surgery
University of Kentucky College of Medicine
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Board Certification

4/2/03 American Board of Surgery, General Surgery, Certificate 48138
10/17/03 American Board of Surgery, Surgical Critical Care, Certificate 2015

Licensure

1996 Kentucky

Education

12/07-Present Masters of Science Program, Clinical and Translational Sciences, University of Kentucky
(expected graduation 5/12)
07/02-6/03 Fellowship, Surgical Critical Care, University of Kentucky College
of Medicine
07/95-6/02 General Surgery Residency, University of Kentucky College of Medicine,
07/92-6/93 Student Fellowship, Anatomic and Clinical Pathology, University of
Kentucky College of Medicine
08/90-05/95 M.D., University of Kentucky College of Medicine
08/86-05/90 B.A., Human Studies, University of Kentucky

Present Positions

07/11-Present Chief, Section on Trauma and Acute Care Surgery
07/11-Present Paul A. Kearney, MD Endowed Chair of Trauma Surgery
07/10-Present Associate Professor of Surgery, UK College of Medicine, Lexington,
Kentucky

Previous Positions

07/04-6/10 Assistant Professor of Surgery, UK College of Medicine, Lexington,
Kentucky
12/04-12/06 Staff Surgeon, Georgetown Community Hospital
07/03-12/04 Staff Surgeon, Saint Joseph East Hospital, Lexington, Kentucky
07/03-6/04 Clinical Instructor, Department of Surgery, UK College of Medicine, Lexington, Kentucky
07/02-6/03 Staff Emergency Physician, Frankfort Regional Medical Center
02/90-07/95 Communications Technician, Ground Transport and Educator
Univ of KY Hospital Aeromedical Service, Full and Part-time
02/87-09/88 Research Assistant
Univ of KY Hospital Cardiovascular Risk Research Program, Part-time
05/88-08/88 Research Assistant, Department of Anesthesia, Duke University Med Center, Full-time
12/86-4/90 Emergency Medical Technician

ACB 01/13/12

Hospital Privileges

University of Kentucky Hospital, Lexington, Kentucky
Good Samaritan Hospital, Lexington, Kentucky

Teaching

1996 Clinical Instructor, Med821-Physical Diagnosis, UK College of Medicine
2003 Clinical Instructor, Med821-Physical Diagnosis, UK College of Medicine
2006 Spring BIO 395-Independent Research in Biology
2006 Fall BIO 395-Independent Research in Biology
1998-Present Advanced Trauma Life Support Instructor and Course Director
2005-Present Rural Trauma Team Development Course Instructor and Course Director
2007 Fall BIO 395-Independent Research in Biology (Mentee: Michael Kasten)
2007-Present Med 815-Introduction to Clinical Research (Each semester, Spring 2007-present)
2010 Spring BIO 395-Independent Research in Biology (Mentee: Cameron Hamilton)
2010 Fall BIO 395-Independent Research in Biology (Mentees: Andrew Gerughty and Cameron Hamilton)

X. Awards/Honors

9/ 11 Clinical Clerkship Teaching Award, UK College of Medicine
6/11 Off-Service Instructor of the Year, Department of Emergency Medicine (Residents)
2011 Best Doctors in America
2010 Best Doctors in America
11/09 Golden Cross Award, Kentucky American College of Emergency Physicians, for career commitment to care of the injured
9/09 Peter C. Canizaro Award, best paper by a new member, American Association for the Surgery of Trauma
9/09 Abraham Flexner Master Educator Award for Educational Leadership and Administration
9/09 Abraham Flexner Master Educator Award for Outstanding Teaching Contribution and Mentorship
6/08 Medical Student Teaching Award
11/07 Ward O. Griffen Award for Student Teaching
4/08 Dean's Physician Scientist Award
10/07 Ward O. Griffen Award for Student Teaching
9/07 Clinical Clerkship Teaching Award
1/07 Wyeth Research Scholarship, Eastern Association for the Surgery of Trauma Foundation
9/06 Clinical Clerkship Teaching Award
9/06 Ben Eiseman Award for Excellence in Resident Education
9/06 Winner, Medical Student Paper Competition, American College of Surgeons, Kentucky Chapter
2006 Ward O. Griffen Award for Resident Teaching
2004 Gordon L. Hyde Award, for surgical resident advocacy
2003 Winner, 2nd Place, Kentucky Resident Paper Competition, American College of Surgeons
2002 Kentucky State Winner, Resident Paper Competition, American College of Surgeons Committee on Trauma
2001 Frederick A. Collier Surgical Society Clinical Tour
1999 Kentucky State Winner, Resident Paper Competition, American College of Surgeons Committee on Trauma
1999 Region IV Winner, Resident Paper Competition, American College of Surgeons Committee on Trauma
1999 Resident Research Award Recipient, Kentucky Chapter, American College of Surgeons
1995 Carey Cup Award for highest academic standing in the fourth year Emergency Medicine Clerkship

1994 Promoted to Fourth Year of Medical School with High Distinction
 1990 President, Alpha Epsilon Delta Pre-medical Honorary

Professional Memberships

1998 Southeastern Surgical Congress
 1998 Association for Academic Surgery
 1999 Southern Medical Association
 2002 Society of Critical Care Medicine
 2003 Kentucky Committee on Trauma, American College of Surgeons
 2003 Eastern Association for the Surgery of Trauma
 2006 American College of Surgeons, Fellow
 2007 American Association for the Surgery of Trauma, Fellow
 2006-2007 Councilor-at-Large, Kentucky Chapter, ACS
 2007-2010 Secretary-Treasurer, Kentucky Chapter, ACS
 2008-2009 European Society for Trauma and Emergency Surgery, Member
 2010-2011 President Elect, Kentucky Chapter, ACS
 2011-2012 President, Kentucky Chapter, ACS

Committee

06/2011-Present **Board of Directors**, Commonwealth Soccer Club
 03/2011-Present **Board of Directors**, Kentucky Blood Center
 02/2011-Present **Board of Directors**, Kentucky Organ Donor Affiliates
 12/2010-Present At-Large Member, Medical Staff Executive Committee, UK Healthcare
 10/2010-Present EAST Foundation, National Steering Committee
 05/2010-Present Committee on Trauma, Kentucky Chapter, **Vice-Chair**
 12/2008-Present Scholarship Committee, EAST, **Chair**
 12/2008-Present Kentucky Medical Services Foundation, Compliance Committee
 11/2008-Present **Board of Directors**, Eastern Association for the Surgery of Trauma (EAST)
 10/2008-Present Verification Subcommittee, Kentucky TAC, **Chair**
 9/2008-Present Kentucky Trauma Advisory Committee (KYTAC), **Chair**
 2006-Present Transfusion SubCommittee (of Medical Executive Committee), **Chair**
 2/2006-Present Surgical Services Liaison to TDI (Team for Documentation Integrity)
 9/2005-Present Master Clinicians Task Force (*ad hoc*)
 2/2005-Present UK Organ Donation Council, **Chair 2007-Present**
 2004-2006 UK Hospital Ethics Committee
 7/2003-Present Pre-Hospital Trauma QA Committee
 2003-Present Emergency Medical Services Committee, Kentucky Medical Association, Member
 2003-Present UK Hospital Critical Care Committee, Member
 2002-Present Ward O. Griffen Surgical Society, **Faculty Advisor**
 2002-Present Education Committee, Department of Surgery, Member
 2002-Present Interdepartmental Trauma Quality Assurance Committee, Member
 2002-Present Trauma Patient Care Committee, Member
 1999-2000 Board of Directors, Center for Excellence in Medical Education
 1994-1995 Salvation Army Medical Clinic, Lexington, KY, Co-coordinator

Editorial Boards/Guest Reviewer

American Surgeon (Guest Reviewer)
 Cellular and Molecular Life Sciences (Guest Reviewer)
 American Journal of Critical Care (Guest Reviewer)
 Reviews of Recent Clinical Trials (Guest Reviewer)
 Transfusion (Guest Reviewer)

Other Administrative and Scholarly Experience

- 08-19-11 Trauma Optimal Performance Improvement Course (TOPIC), Society of Trauma Nurses, Louisville, Kentucky.
- 1-25-11 Optimal Trauma Center Management Course, American College of Surgeons Committee on Trauma, Naples, Florida
- 7-26-10 Advocacy 101 Course, American College of Surgeons Joint Surgical Advocacy Conference, Washington, DC
- 1-17-08 Elevating Financial Leadership Skills of Physician Leaders Course, Eastern Association for the Surgery of Trauma
- 2007-12 Clinical and Translational Science (CTS) Scholar (Masters of Science Program)
- 10-25-07 Screening, Brief Intervention and Referral to Treatment (SBIRT) Course, American College of Surgeons, Las Vegas Nevada
- 2006-07 Membership on UK Senate's Admissions Advisory Committee
- 2006 University of Kentucky Senate, Member (until August 2010)
- 2006 Director, Surgical Intensive Care Unit, UK Hospital
- 2006 Advanced Open Hernia Course, Miami, Florida, March 17, 2006
- 11/2005 Instructor, Rural Trauma Team Development Course, Am Coll Surgeons
- 9/2005 Disaster Management Course for Surgeons, American College of Surgeons
- 2005 Approach Surgeon Course, Charite Artificial Disc, Ethicon Institute, Cincinnati, OH
- 2004 Laparoscopic Colectomy and Hand-Assisted Laparoscopic Colectomy Course, Endo-Surgery Institute, Cincinnati, OH
- 2004 Minimally Invasive Surgery Techniques Course, Endo-Surgery Institute, Cincinnati, OH
- 2003 Assistant Medical Director, UK Hospital Air Medical Service
- 2003-07 Advanced Trauma Life Support, Course Director
- 2003 Certifying Examination in Surgical Critical Care, Pass 10/9/03
- 2003 Clinical Research Skills Workshop for Investigators, Pfizer Corporation
- 2003 Certifying Examination in General Surgery, Pass 4/2/03
- 2003 Qualifying Examination in General Surgery, Pass 10/17/02
- 2003 Pediatric Advanced Life Support, Provider, American Heart Association
- 2000 Laparoscopic Ventral Herniorrhaphy Course
Univ KY Dept Surgery Section on Minimally Invasive Surgery
- 2002 Basic Trauma Life Support, KY Affiliate Faculty and a Physician Medical Director, American College of Emergency Physicians
- 2001 Pediatric Advanced Life Support, Audit, American College of Emergency Physicians
- 1999 Advanced Ultrasonography Course
University of Louisville Department of Surgery
- 1998 Advanced Trauma Life Support, Instructor, American College of Surgeons
- 1995 Advanced Cardiac Life Support, Provider, American Heart Association, recertified 2002

Teaching

- 1996 Clinical Instructor, Med821-Physical Diagnosis, UK College of Medicine
- 2003 Clinical Instructor, Med821-Physical Diagnosis, UK College of Medicine
- 2006 Spring BIO 395-Independent Research in Biology
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- 1998-Present Advanced Trauma Life Support Instructor and Course Director
- 2005-Present Rural Trauma Team Development Course Instructor and Course Director
- 2007 Fall BIO 395-Independent Research in Biology (Mentee: Michael Kasten)
- 2007-Present Med 815-Introduction to Clinical Research (Each semester, Spring 2007-present)
- 2010 Spring BIO 395-Independent Research in Biology (Mentee: Cameron Hamilton)
- 2010 Fall BIO 395-Independent Research in Biology (Mentees: Andrew Gerughty and Cameron Hamilton)

Invited Lectureships

1. "Transfusion Prevention in Critically Ill Patients." Pulmonary Medicine Grand Rounds, University of Kentucky. February 27, 2011.
2. "Perfusion Monitoring Strategies-Passing the VAT Grade." Eastern Association for the Surgery of Trauma, 24th Annual Scientific Assembly, Naples, Florida, January 26, 2011.
3. "Transfusion-Policy and Prevention in the ICU." Multi-disciplinary Critical Care Grand Rounds, University of Kentucky. November 19, 2010.
4. "Kentucky's Trauma Registry." Kentucky Trauma Symposium, Lexington, Kentucky. November 11, 2010.
5. "ATV Injury in Kentucky-Evidence for Change." Quarterly Performance Improvement Meeting, Marcum and Wallace Memorial trauma Center, October 26, 2010.
6. Kentucky's Trauma Care System-State of the System at 2 Years". Kentucky State EMS Symposium, Lexington, KY Sept 17, 2010.
7. "Trauma Transfer Protocols for EMS-Why It's Critical for Our EMT's to Have Guidance." Kentucky Board of EMS South Central Regional Directors' Meeting. July 22, 2010.
8. "Using TeleHealth to Develop A Trauma System." Appalachian Regional Healthcare Leadership Summit, Lexington, Kentucky. July 17, 2010.
9. "Fluid Resuscitation in the Field." Eastern Kentucky Trauma and Emergency Care Symposium, Natural Bridge State Park. July 10, 2010.
10. "Mindfulness in Emergency Care." The Trauma Institute, University of Louisville. May 19, 2010.
11. "Mindfulness in Medicine." Dean's Colloquium, University of Kentucky. May 13, 2010. "Abdominal Trauma." Lexington Fire Department Paramedic Continuing Education. Fire Training Center, Lexington, KY. April 6, 7 and 8, 2010.
12. "What Ever Happened to PolyHeme?" Lexington Fire Department Paramedic Continuing Education. Fire Training Center, Lexington, KY. April 6, 7 and 8, 2010.
13. "Resuscitation Targets-New Guidelines for EMS." Lexington Fire Department Paramedic Continuing Education. Fire Training Center, Lexington, KY. April 6, 7 and 8, 2010.
14. "Managing Abdominal Trauma at a Level 3 Trauma Center". Ephraim McDowell Regional Trauma Center. January 27, 2010.
15. "Trauma System Report-Importance of EMS Data". Kentucky Board of EMS State Data Conference. Versailles, KY. December 1, 2009.
16. A Trauma System In Kentucky-Are We There Yet?" Kentucky State Trauma Symposium, Louisville, KY October 29, 2009.
17. "Contemporary Pre-Hospital Resuscitation". Kentucky State EMS Symposium, Lexington, KY Sept 17, 2009.
18. "Contemporary Resuscitation". Ward O. Griffen Surgical Society, Univ of KY. Sept 17, 2009.
19. "Frankfort Regional's Trauma Center". Kickoff Dinner, Frankfort Regional Medical Center. Frankfort, KY. 8-18-09.

20. "Trauma to the Thoracoabdomen and Mediastium". Pulmonary Medicine Grand Rounds, Univ of KY. August 17, 2009.
21. "ATV Safety in Youth-An Innovative Approach". Leadership Kentucky. Lexington, KY. July 9, 2009.
22. "Damage Control Resuscitation". Trauma Institute Seminar, Department of Surgery, University of Louisville College of Medicine, Louisville, May 21, 2009.
23. "It's the Patient, Doctor!-Keeping Your Compass Oriented Despite Conflicting Cues". University of Kentucky Graduating Class, Dean's Colloquium. May 16, 2009.
24. "Donation after Cardiac Death-One Hospital's Journey". Critical Care of the Organ Donor Symposium, Kentucky Organ Donor Affiliates, Louisville, KY, May 8, 2009.
25. Toward A Safer All-terrain Vehicle for Youth. Spring Conference. Center for Clinical and Translational Sciences. Lexington, Kentucky. April 23, 2009.
26. "Permissive Hypotension." Montgomery County Emergency Medical Services. Training Symposium. Co-sponsored by UK Healthcare Outreach. Mt Sterling, KY. March 17, 2009.
27. "Penetrating Torso Injuries." Montgomery County Emergency Medical Services. Training Symposium. Co-sponsored by UK Healthcare Outreach. Mt Sterling, KY. March 17, 2009.
28. "Kentucky's Trauma System-Statement of Need" Trauma Center Verification Conference. KY Trauma Advisory Committee. Versailles, KY. January 6, 2009.
29. "Transfusion and T cell Function." Fall Conference. Center for Clinical and Translational Sciences. Lexington, Kentucky. October 28, 2008.
30. "What's New in Trauma Care?" Ward O. Griffen Surgical Society, UK, Lexington, September 18, 2008.
31. "Blood Products in Acute Care Surgery-Past, Present and Future". Kentucky Association of Blood Banks. Lexington, Kentucky September 9, 2008.
32. "Solid Organ Transplantation-Fundamental Principles in the Context of Organ Shortage", Grand Rounds, Department of Surgery, UK College of Medicine. September 3, 2008.
33. "Conducting Research Using the FDA's Provision for Exception from the Consent Requirement". Meet the Clinician Scientist Course, UK College of Medicine. July 30, 2008.
34. "Kentucky's Trauma System-Now We Get Down to Work." Trauma Institute Seminar, Department of Surgery, University of Louisville College of Medicine, Louisville, May 21, 2008.
35. "The Disruptive Physician". University of Kentucky Graduating Class, Dean's Colloquium. May 8, 2008.
36. "Donation after Cardiac Death". Southern Surgeons Club 2008 Meeting. Lexington, Kentucky. April 21, 2008.
37. "Contemporary Management of the PolyTrauma Patient". Association Osteosynthesis Visiting Professorship (AOVP). Lexington, Kentucky. April 19, 2008.
38. "Perioperative Critical Care". Obstetrics-Gynecology Conference. March 25, 2008.
39. "Transfusion-Associated Immune Suppression-Red Cell Arginase as A New Target." Department of Surgery Research Colloquium. February 21, 2008.

40. "Preventing and Treating Infections in the ICU." Department of Oral and Maxillofacial Surgery Grand Rounds, University of Kentucky, 12-4-07.
41. "Trauma-Kentucky's Unrecognized Disease". Kentucky Rural Health Association Fall Conference, 11-28-07.
42. "Red Blood Cell Arginase Suppression of T-Cell Proliferation." University of Kentucky Department of Surgery Grand Rounds. October 31, 2007.
43. "MRSA-A Pathogen in Evolution." University of Kentucky Department of Emergency Medicine Conference, 10-4-07.
44. "Appropriate Use of Antimicrobials in Surgery-Pneumonia and Skin and Soft Tissue Infections." UK College of Medicine Surgical Clerkship Teaching Conference 10-3-07.
45. "Why Kentucky Doesn't Have a Statewide Trauma System-And What You Can Do about It". Kentucky State Emergency Medical Services Symposium (Annual). 09-20-07. Owensboro, Kentucky.
46. "Supporting the Gravely Ill Patient Who is a Potential Organ Donor. University of Kentucky Department of Surgery Grand Rounds." September 19, 2007.
47. "Safe, Quality Evidence-Based Surgery: Transfusions, Mechanical Ventilation and Patient Identification." University of Kentucky Department of Surgery Grand Rounds. September 12, 2007.
48. "Trauma to the Head and Neck". East Kentucky EMS Symposium. Slade, Kentucky. July 7, 2007.
49. "Pediatric ATV Injuries: Severe and Surgical." Georgetown-Scott County Trauma Symposium. May 18, 2007.
50. "The Effect of Transfusion on T-cells". Immunology Musings, Department of Immunology, University of Kentucky College of Medicine, Lexington, January 10, 2007.
51. "Repair of Penetrating Wounds to the Hollow Viscera." University of Kentucky Grand Rounds. January 10, 2007.
52. "The PolyHeme Trauma Trial-An Update". Trauma Institute Seminar, Department of Surgery, University of Louisville College of Medicine, Louisville, December 19, 2006.
53. "Conducting Research Using the FDA's Provisions for Exception from Informed Consent at Enrollment". UK Clinical Research Organization (CRO) Monthly Seminar, University of Kentucky, Lexington, December 13, 2006.
54. "How to Avoid Getting Admitted to a Trauma Center", UK Healthcare Public Health Initiative, Lexington Public Library, Lexington, KY, October 28, 2006
55. "Cholelithiasis." University of Kentucky Grand Rounds. September 13, 2006.
56. "Trauma, Organ Failure and How PolyHeme Saves Lives". East Kentucky EMS Symposium. Slade, Kentucky. July 8, 2006.
57. "Spinal Immobilization-Why Do We Need It?" Georgetown-Scott County EMS Trauma Symposium, May 19, 2006.
58. "Winning Friends and Influencing Patients". University of Kentucky Graduating Class, Dean's Colloquium. May 19, 2006.

59. "ATV Injury Prevention: Opportunities to Reduce Brain Injury in Kentucky". Brain Injury Association of Kentucky, Annual Meeting. Lexington, Kentucky. April 21, 2006.
60. "Trauma System Development in Kentucky-An Update." 3rd Annual UK Hospital trauma Center Pre-Hospital Quality Assurance Luncheon. Lexington, Kentucky. April 21, 2006.
61. "Hemoglobin-Based Oxygen Carriers-Current Status and Predictions for the Future." Southern Society of Clinical Surgeons Meeting, April 12, 2006.
62. "Special Interest Groups in Trauma-Welcome to the ATV Belt"-Kentucky trauma Symposium, Louisville, Kentucky, November 3, 2005.
63. "Roles and Expectations of Medical Interpreters-A Panel Discussion", Moderator. First Annual UK Medical Interpreters Conference, Lexington, Kentucky, July 29, 2005.
64. "What the Radiologist Needs to Know About Penetrating Truncal Trauma"; Clinical Lecture Series, Department of Radiology, UK College of Medicine, May 9, 2005.
65. "Clinical Research Using FDA Provisions for Exception from Consent Requirements." Department of Biology, UK College of Arts and Sciences, April 1, 2005.
66. "Transfusion for a Number? Just Say, 'No'." Grand Rounds, Department of Surgery, University of Kentucky College of Medicine, November 3, 2004.
67. "Conducting Clinical Research in the Pre-hospital Environment." Association of Air Medical Services Annual Meeting. Cincinnati, OH. October 25, 2004.
68. "Blood Substitutes in Pre-Hospital Research-FDA Regulations and Oversight." American Association of Professional Coders, Kentucky Chapter Meeting, October 19, 2004.
69. "Hemoglobin-Based Oxygen Therapeutics." Grand Rounds, Department of Surgery, University of Louisville Medical School, February 6, 2004.
70. "The Emerging Role of Blood Substitutes in Trauma." Fourteenth Annual University of Kentucky Trauma/Emergency Symposium, November 6, 2003.
71. "Injury Prevention in Young Adults." Jessamine County Board of Education. 1/27/03.
72. "Spinal Immobilization-Fact and Fiction." Thirteenth Annual University of Kentucky Trauma/Emergency Symposium, November 8, 2002.
73. "Blunt Cardiac Injury-Principles of Treatment." Thirteenth Annual University of Kentucky Trauma/Emergency Symposium, November 8, 2002.

Abstracts

1. Proctor L, **Bernard AC**, Ginn G, Kearney P, Pienkowski D. Plank fence penetration into automobiles-implications for prevention initiatives. *J Forensic Sci.* 2011 Jan;56 Suppl 1:S105-8. PMID: 20950318
2. **Bernard AC**, Moore EE, Moore FA, Hides GA, Guthrie BJ, Omert LA, Gould SA, Rodman GH Jr; PolyHeme Study Group. Postinjury resuscitation with human polymerized hemoglobin prolongs early survival: a post hoc analysis. *J Trauma.* 2011 May;70(5 Suppl):S34-7. PMID: 21841568

3. Ferraris VA, Davenport DL, Saha SP, **Bernard A**, Austin PC, Zwischenberger JB. Intraoperative transfusion of small amounts of blood heralds worse postoperative outcome in patients having noncardiac thoracic operations. *Ann Thorac Surg*. 2011 Jun;91(6):1674-80; discussion 1680. Epub 2011 Apr 23. PMID: 21514923
4. Ferraris V, **Bernard AC**, Hyde B, Kearney PA. The Impact of Anti-Platelet Drugs on Trauma Outcomes. Eastern Association for the Surgery of Trauma January 2012, Orlando, FL.
5. Morris PE, Zeno B, **Bernard AC**, Huang X, Simonson S, Bernard GR. Safety and tolerability of an ovine-derived polyclonal anti-TNF- α Fab fragment (AZD9773) in patients with severe sepsis. *International Society of Intensive Care and Emergency Medicine*. Belgium, April 2011. Accepted as Poster.
6. Bernard GR, Zeno B, **Bernard AC**, Armstrong J, Simonson S. A Randomized, Placebo-Controlled, Dose Escalation Trial of Anti-TNF- α (AZD9773) in Patients With Severe Sepsis. *American Thoracic Society* 2011, Submitted.
7. Pienkowski D, Proctor L, **Bernard AC**, Perkins J. "Human Injuries Accompanying Collisions with Wood Plank Fences." Podium presentation at the 63rd Annual Meeting of the American Academy of Forensic Sciences, 24 February 2011, Chicago, IL.
8. Zhu X, Pribis JP, Rominski SL, **Bernard AC**, Rodriguez P, Vodovotz Y, Ochoa JB. Arginine deficiency after induction of a Heterogeneous population of myeloid derived suppressor cells causes T cells dysfunction and increased susceptibility to listeria infection after surgical trauma. *Regulatory Myeloid Cells International Immunopharmacology Conference*. October 21-24, 2010, Arlington, VA, USA.
9. Procter A, **Bernard AC**. Acute care surgery is a profitable service line: Implications for surgeon shortage and access. *American Association for the Surgery of Trauma*, Boston, MA. September 23, 2010.
10. Maynard D, Fryman L, Davenport D, Kearney P, Shanahan P, Gvozdyev B, **Bernard AC**. Brief Intervention for Substance Use: Risk Factors for Reduced Commitment to Change in a Level One Trauma Center. *Society of Trauma Nurses' Annual Conference*, Orlando, FL, April 2010.
11. Ferraris V, Davenport D, Saha S, **Bernard AC**, Zwischenberger. The relationship of blood transfusion to outcomes for carotid endarterectomy. *Clinical Congress, American College of Surgeons*, Chicago, IL, October 2009.
12. **Bernard AC**, Ward M, Meier C, Procter L and Woodward J. Allogeneic red blood cells suppress T cell proliferation without cell contact-Human, animal and mechanistic evidence. *American Association for the Surgery of Trauma* 2009, September 30, Pittsburg, PA.
13. Procter L, Meier C, Woodward J, McNamara, **Bernard AC**. Amino acid transport in RBC's. *American Association for the Surgery of Trauma*, September 2009, Pittsburg, PA.
14. Perry J, Kearney P, Sonka B, Chang P, Boulanger B, Bottiggi T, **Bernard AC**. Acute care surgery rotation contributes significant operative volume to residency training compared to other rotations. *American Association for the Surgery of Trauma* September 2009, Pittsburg, PA.
15. Auxier J, **Bernard A**, Mullineaux DR, Pienkowski D, Forman J, Shapiro R, Bell M. Evaluation of Pediatric Fit and Safety Guidelines for All-Terrain Vehicles. *National Highway Traffic Safety Administration Workshop*, November 2, 2008.
16. Procter L, Meier C, Montgomery A, Browning T, Kearney P, **Bernard A**. Packed Red Blood Cells Suppress Human T-Lymphocyte Proliferation. *Autumn Immunology Conference*. November 20, 2008.
17. Procter L, **Bernard A**, Fryman L, Kearney P, Sonka B, Chang P, Boulanger B, Ginn G, Pienkowski D. Plank Fence Penetration into Auto-Implications for Prevention Initiatives. *Academic Surgical Congress*, Ft. Myers, Florida February 2009.
18. **Bernard A**, Mullineaux DR, Auxier J, Bell M, Shapiro R, Forman J, Lock D, Klimkina D and D Pienkowski. Anthropometric Fit of Youths on All Terrain Vehicles. *Academic Surgical Congress*, 2009, Ft. Myers, Florida February 2009.
19. Davenport D, **Bernard AC**, Chang P, Zwischenberger J. Intraoperative Transfusion Of Only 1 or 2 Units Of Packed Red Blood Cells Is Associated With Increased 30-Day Mortality, Pneumonia, Organ/Space Infection And Sepsis In General Surgery Patients. *Southern Surgical Association*, December 2, 2008.

20. Lee C, **Bernard A**, Fryman L, Coughenour J, Costich J, Boulanger B, Chang P, Kearney P. Factors that may contribute to delay in transfer of trauma victims. Kentucky Committee on Trauma Resident Paper Competition, November 2007.
21. Overall P, **Bernard A**, Meier C, May J, Lock D, Kasten M, Coughenour J, Chang P, Boulanger B and P Kearney. Packed red blood cell (PRBC) cytolysis enhances arginine consumption by arginase-A novel mechanism for failure of transfusion to enhance oxygen delivery in patients with acute coronary syndrome. Gill Heart Symposium, Lexington, Kentucky, October 19, 2007.
22. Lee C, Coughenour J, Chang P, Fryman L, Boulanger, B, Kearney P, **Bernard AC**. Imaging that May Delay Inter-Facility Transport of Trauma Victims: A Survey Study of Referring Physicians. Accepted for presentation, American Association for the Surgery of Trauma, September, 2007, Las Vegas, NV.
23. **Bernard AC**, Meier C, Coughenour J, Chang P, Boulanger B, Kearney P. T-cell CD3 and Zeta Chain Expression are Suppressed by Red Blood Cell Arginase. Accepted for presentation, American Association for the Surgery of Trauma, September, 2007, Las Vegas, NV.
24. Kasten M, Meier C, May J, Manning E, Adams W, Coughenour J, Chang P, Kearney, P, Boulanger B, **Bernard AC**. Packed Red Blood Cell Mediated Arginine Depletion and the Effect on Human T-Cell Proliferation. Kentucky Chapter, American College of Surgeons, September 2006.
25. Baldwin LA, **Bernard AC**, Witzke D, Pollack SH, Chang PK, Kearney PA, Boulanger BR. ATV Injuries in Youth-Severe and Surgical. Kentucky Chapter, American College of Surgeons, September 2006.
26. Kasten M, Meier C, **Bernard AC**. Packed Red Blood Cell Mediated Arginine Depletion and the Effect on Human T-Cell Proliferation. Scientific Forum. Department of Biology, UK College of Arts and Sciences, April 26, 2005.
27. Adams W, Meier C, **Bernard AC**. Transfused Red Blood Cell Arginase and its Effect on the Immune System. Alpha Omega Alpha Research Day, March 1, 2006.
28. **Bernard AC**, CF Meier, N Lopez, JB May, PK Chang, BR Boulanger, PA Kearney. Transfusion-Associated Arginine Depletion is Mediated by Packed Red Blood Cell (PRBC) Arginase. Eastern Association for the Surgery of Trauma. January 2006.
29. Freeman S, Schulz-Burton M, Meier C, Kearney P, Boulanger B, Lopez N, Chang P and **Bernard A**. Effects of Packed Red Blood Cell Arginase on Lymphocyte Proliferation. National Medical Student Research Forum, Austin, TX. April 25, 2005.
30. Wagers M, **Bernard A**, Ray M, Rockich A, Barton-Baxter M, Tsuei B, Barnes S, Boulanger B, Kearney P. Impact of Language Barriers on Medical Professionals is Dependent Upon Role. American Association of Critical Care Nurses, May 2005, New Orleans, LA.
31. Summers A, Thomas J, Ray M, Rockich A, Barnes S, Boulanger B, Tsuei B, Kearney P, **Bernard A**. Effectiveness of Practitioner-Specific Focused Accessible Spanish Translator (FAST[®]) on Stress Levels of Care Providers. American Association of Critical Care Nurses, May 2005, New Orleans, LA.
32. Freeman S, Schulz-Burton M, Meier C, Kearney P, Boulanger B, Lopez N, Chang P and **Bernard A**. Packed Red Blood Cell Arginase Affects Lymphocyte Proliferation. Alpha Omega Alpha Research Symposium. University of Kentucky College of Medicine. Lexington, Kentucky. February 16, 2005.
33. Schulz-Burton M, Meier C, May J, Freeman S, Kearney P, Boulanger B, Chang P, Lopez N, **Bernard A**. Arginine Metabolism in Patients with SIRS. Alpha Omega Alpha Research Symposium. University of Kentucky College of Medicine. Lexington, Kentucky. February 16, 2005.

34. Wagers M, **Bernard A**, Ray M, Rockich A, Barton-Baxter M, Tsuei B, Barnes S, Boulanger B, Kearney P. Language barrier impact in acute surgical care. Kentucky Medical Association Meeting. September 22, 2004. Louisville, KY.
35. Lopez N, Meier C, Boulanger BR, Kearney PA, **Bernard AC**. Sepsis alters amino acid metabolism in mice-A role for arginase. Region IV ACS Committee on Trauma Resident Paper Competition, Lexington, KY, November 19, 2004.
36. Lopez N, Meier C, Barnes SL, Tsuei BJ, Boulanger BR, Kearney PA, **Bernard AC**. Murine abdominal sepsis alters splenocyte arginase. Association of Academic Surgery. Houston, TX. November 11, 2004.
37. Lopez N, Meier C, Boulanger BR, Kearney PA, **Bernard AC**. Arginase expression in murine sepsis. Kentucky Committee on Trauma Resident Paper Competition, Lexington, KY, August 15, 2004.
38. Lopez N, Meier, C, Barnes S, Kearney P, Tsuei B, Boulanger B, **Bernard A**. TGF-beta increases human peripheral blood monocyte arginase activity. Resident Conference, Society of University Surgeons, February 12, 2004, St. Louis, Missouri.
39. Tsuei BJ, **Bernard AC**, Barksdale AR, Meier CF, Barnes SL, Boulanger BR, Kearney PA. Supplemental enteral arginine is metabolized to ornithine in injured patients. Association for Academic Surgery 2003, Sacramento, California.
40. **Bernard A**, Barnes S, Kearney P, Loveless P, Boulanger B. The Adolescent Trauma Vehicle (ATV): A Review of 849 All-terrain Vehicle Crash Victims. Canadian Trauma Association, Banff, March 2003.
41. **Bernard A**, Barnes S, Kearney P, Tsuei B, Loveless P, Boulanger B. ATV injury in youth: A predictor for need for surgery. American College of Surgeons-Kentucky Chapter Meeting, April 18, 2003.
42. **Bernard A**, Meier C, Barnes S, Mckenzie S, Tsuei B, Boulanger B, Kearney P. Interleukin-10 (IL-10) Induces Human Peripheral Blood Mononuclear Cell (PBMC) Arginase. American College of Surgeons-Kentucky Chapter Meeting, April 18, 2003.
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44. Kearney PA, Barnes SL, **Bernard AC**, Boulanger BR, Tsuei BJ. Trauma attending presence in the resuscitation room does not affect outcome in severe trauma. Southern Surgical Association. Palm Beach, Florida. December 5, 2002.
45. **Bernard AC**, Barnes SL, Kearney PA, Tsuei BJ, Loveless PS, Boulanger BR. ATV: Adolescent Trauma Vehicle. Region IV Resident Paper Competition, Committee on Trauma, American College of Surgeons, Chattanooga, Tennessee, November 16, 2002.
46. **Bernard AC**, Barnes SL, Kearney PA, Tsuei BJ, Loveless PS, Boulanger BR. ATV: Adolescent Trauma Vehicle. Kentucky Chapter, Committee on Trauma, American College of Surgeons. Louisville, Kentucky October 18, 2002.
47. **Bernard AC**, Matthews M, Endean ED, Kearney PA, Boulanger BR, Tsuei BJ, Loveless PS, Barnes SL. Pediatric amputations in trauma. Kentucky Chapter, Committee on Trauma, American College of Surgeons. Louisville, Kentucky October 18, 2002.
48. **Bernard AC**, Mullett TW, Arnold S. Indwelling pleural drainage safely palliates malignant effusion, American College of Surgeons-Kentucky Chapter Meeting. April 2002.
49. Boulanger BR, Kearney PA, Tsuei BJ, Ochoa JB, **Bernard AC**. The routine use of sonography in penetrating torso injury is beneficial. American Association for the Surgery of Trauma, San Antonio, October 2000.

50. Ochoa JB, **Bernard AC**, O'Brien WE, Morris SM. Increased arginase I expression in peripheral mononuclear cells after trauma in humans: Implications for L-arginine availability and nitric oxide production. Nitric Oxide Society, San Francisco, CA, June 2000.
51. **Bernard AC**, Mistry SK, Morris SM, Tsuei BJ, Maley ME, Boulanger BR, Kearney PA, Ochoa JB. Up-regulation of arginase-A novel mechanism for decreased NO production after trauma. Resident Paper Competition, National Committee on Trauma, American College of Surgeons, Reno, NV, March 10, 2000.
52. Lovett JE, Cornette P, Fink BF, **Bernard AC**. Post-operative monitoring of muscle flap pedicle patency utilizing microdialysis. Southeastern Society of Plastic and Reconstructive Surgeons, Southampton Princess, Bermuda, June 2000.
53. **Bernard AC**, Shane MD, Ochoa JB, Morris SM, Boulanger BR, Kearney PA, Tsuei BJ. Elective surgery increases arginase activity and expression in human peripheral blood leukocytes and decreases plasma nitric oxide metabolites. Society of University Surgeons Resident Forum, 61st Annual Meeting, Toronto, CA, February 2000.
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59. **Bernard AC**, Maley ME, Fitzpatrick EA, Tsuei BJ, Ochoa JB. Macrophage arginase activity is induced by catecholamines-an effect inhibited by propranolol. Society of University Surgeons, Sixtieth Annual Meeting, Resident Forum, New Orleans, LA, 2/11/99.
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Manuscripts

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2. **Bernard AC**, Griffen MM, Tsuei BJ, Boulanger BR, Kearney PA, Ochoa JB. Trauma increases arginase activity in human peripheral blood leukocytes. *Surgical Forum*, 1999;50:266-9.
3. **Bernard AC**, Kenady DE. Conventional surgical tracheostomy as the preferred method of airway management. *J Oral Maxillofac Surg* 1999;57:310-315.
4. **Bernard AC**, Fitzpatrick EA, Maley ME, Gellin GL, Tsuei BJ, Arden WA, Boulanger BR, Kearney PA, Ochoa JB. Beta adrenoceptor regulation of macrophage arginase activity. *Surgery* 2000;127:412-18.
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18. **Bernard AC**, Mullett TW. Mediastinal granuloma complicating histoplasmosis. *J KY Med Assoc* 2003;101:12-14.
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23. **Bernard AC**, Magnuson B, Tsuei BJ, Swintosky M, Barnes SL and PA Kearney. Defining and Assessing Tolerance in Enteral Nutrition. *Nutr Clin Pract* 2004;19:481-6.
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41. **Bernard AC**, Lee C, Hoskins J, Lee J, Patel S, Ginn G, Maley B. Sciatic Hernia: Laparoscopic Transabdominal Extraperitoneal Repair with Plug and Patch. *Hernia* 2010;14:97-100.
42. McHugh PP, Davenport DL, **Bernard AC**, Ranjan D and Gedaly R. Laparoscopic versus Open Splenectomy: A Multicenter Analysis of 1247 Patients. *In preparation*.
43. Procter L, **Bernard AC**, Kearney PA. Strangulated Appendix After TAPP Repair of Bilateral Inguinal Hernias. *J Laparoscop Endoscop and Perc Techniques* 2010;20:e42-3.
44. Procter L, **Bernard A**. Transfusion and Infection. *Surg Infections, In Revision*.
45. Kluemper C, Rogers A, Fallat M, **Bernard A**. Genitourinary Injuries in Pediatric ATV Trauma - A Mechanistic Relationship? *Urology* 2010;75:1162-4.

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54. Postinjury Resuscitation with Human Polymerized Hemoglobin Prolongs Early Survival: A Post Hoc Analysis. **Bernard AC**, Moore EE, Moore FA, Hides GA, Guthrie BA Omert LA Gould SA and the PolyHeme Study Group. *J Trauma* 2011;70:S34-7.
55. Hasenboehler EA, **Bernard AC**, Bottiggi AJ, Moghadamian ES, Wright RD, Chang PK, Boulanger BR, Kearney PA. Treatment of traumatic flail chest with muscular sparing open reduction and internal fixation: description of a surgical technique. *J Trauma*. 2011;71:494-501.
56. Procter L, Korosec R, Kearney P, Chipko P, Boulanger B, Chang P, Bottiggi T, Hasenboehler E, Zwischenberger J, **Bernard A**. Acute Care Surgery is a Profitable Service Line: Implications Surgeon Shortage and Access. *JACS*, *In Press*.
57. Miller CP, Cook AM, Case CD, **Bernard AC**. As-Needed Antihypertensive Therapy in Surgical Patients-Why and How: Challenging a Paradigm. *Am Surg*, *In Press*.
58. Hasenboehler EA, **Bernard AC**, Bottiggi AJ, Moghadamian ES, Wright RD, Chang PK, Boulanger BR, and Kearney PA. Treatment of Traumatic Flail Chest With Muscular Sparing Open Reduction and Internal Fixation: Description of a Surgical Technique. *The Journal of TRAUMA® Injury, Infection, and Critical Care* • Volume 71, Number 2, August 2011.

Book Chapters

Procter L, Costich J, **Bernard A**, et al. "Trauma in Appalachia" in Appalachians: Their Health and Well-Being. 2012, Univ of KY Press, Lexington, KY. Ludke R. (ed).

Pritts T and **AC Bernard**. Multiple Organ Dysfunction. Textbook of Critical Care, 7th Ed. Rippe and Irwin 2011.

Bernard A, Kearney P. Systemic Inflammatory Response Syndrome and Sepsis. 1st Edition, Internal Medicine Clerkship Handbook. 2006, McGraw-Hill.

Bottiggi A, **Bernard A**. Pneumothorax. 1st Edition, Internal Medicine Clerkship Handbook. 2006, McGraw-Hill.

Barnes SL, Swintosky M, **Bernard AC**, Kearney PA. Perioperative Nutrition, In A.S.P.E.N. Nutrition Support Practice Manual, 2nd Edition, 2005, Merritt R (ed).

Research Support

Professional Student Mentored Research Fellowship

Mentor

Trauma Surgical Resource Availability in Kentucky-Disparity Among Paramedics and Surgeons. Jerome Manson (PI)

June 2011-December 2012, \$3000.

Professional Student Mentored Research Fellowship

Mentor

Incidence of Use and Cost of Short-Acting Anti-Hypertensive Therapy. Chris Miller (PI)

June 2010-December 2011, \$3000.

Professional Student Mentored Research Fellowship

Mentor

Patterns of Injury and Methods of Equestrian Injury Prevention. Samuel Carmichael (PI)

June 2010-December 2011, \$3000.

University of Kentucky, Dean's Physician Scientist Award

Principal Investigator

"Transfusion and T-cell Function"

7/1/08-6/30/11, \$240,000

University of Kentucky Center for Clinical and Translational Sciences

Principal Investigator (Investigator-initiated)

"Kinematics of Youth (Age 12-15) on Stationary All Terrain Vehicles"

4/15/08-3/14/09, \$5000

Pfizer

Principal Investigator (Investigator-initiated)

Prospective Evaluation of Sputum Staphylococcus aureus Resistance Patterns

4/1/08-10/01/09. \$10,975

Astrazeneca

Principal Investigator

A Placebo-controlled, Double-blind, Dose-escalation Study to Assess the Safety, Tolerability, and Pharmacokinetics and Pharmacodynamics of Single and Multiple Intravenous Infusions of CytoFab™ (AZD9773) in Patients with Severe Sepsis, Protocol No: D0620C00004.

2/08-Present, \$133,173.83

Department of Surgery Faculty Research Grant, University of Kentucky

Principal Investigator

"Packed Red Blood Cell Arginase and T-cell Receptor Expression"

5/1/07-4/30/07, \$36,000

Eastern Association for the Surgery of Trauma (EAST)-Wyeth Scholarship

Principal Investigator

"Transfusion and T-cell Receptor Expression"

1/1/07-12/31/07, \$35,000

Southern Medical Association

Mentor

Resident Research Grant. Altered arginine metabolism associated with allogeneic blood transfusion. Nicholas Lopez, PI.

June 2004-June 2005, \$1200.

Northfield Laboratories

Principal Investigator

“A Phase III, Randomized, Controlled, Open-Label, Multicenter, Parallel-Group Study Using Provisions for Exception from Informed Consent Requirements Designed to Evaluate the Safety and Efficacy of Poly-SFH-P Injection [Polymerized Human Hemoglobin (Pyridoxylated), PolyHeme™] When Used to Treat Patients in Hemorrhagic Shock Following Traumatic Injuries Beginning in the Prehospital Setting.”

2004-Present, \$334,002.20

Merck & Co., Inc

Sub-Investigator

“A Prospective, Multicenter, Double-Blind, Randomized, Comparative Study to Evaluate the Safety and Efficacy of Tolerability, and Efficacy of a Single Dose of Ertapenem Sodium (MK-0826) Versus Cefotetan for the Prophylaxis of Surgical Site Infection Following Elective Colorectal Surgery.”

2003-Present, \$101,520.00

Pharmacia Corporation

Sub-Investigator

“A Randomized, Open label, Multi-center, Clinical Trial, Comparing Microbiologic Response to Linezolid and Vancomycin in Ventilator-associated Pneumonia (VAP) Due to Methicillin Resistant Staphylococcus Aureus (MRSA)”.

2003-Present, \$109,906.06

Syncro Medical Innovations

Sub-Investigator

Placement of nasogastric feeding tubes using external magnetic guidance

09/01/03-8/31/05. \$15,006.60

Eli Lilly and Company

Principal Investigator

Efficacy and Safety of Drotrecogin Alfa (Activated) in Adult Patients with Early Stage Severe Sepsis.

8/1/03-7/31/05. \$43,400.00

University of Kentucky Research Fund

Principal Investigator

“Induced L-arginine Catabolism in Human Monocytes”

07/01/03-06/30/04, \$14,989

Wyeth Research

Sub-Investigator

A Multicenter Double-Blind, Randomized, Comparison Study of the Efficacy and Safety of Tigecycline.

03/01/03-02/28/05. \$85,804.70

GlaxoSmithKline

Sub-Investigator

A Prospective Observational Study of Acute Major Organ System Failure in Septic Patients. EMD20003.

01/01/03-12/31/04. \$40,195.56

Eli Lilly and Lilly and Company

Sub-Investigator

“A Phase IIb Study to Determine the Efficacy and Safety of LY 315920 in Patients with Severe Sepsis.”

2002, \$101,626.00

Southern Medical Association

Principal Investigator

Research Experience

1998-2000 Research Fellowship
University of Kentucky
Mentors: Juan B. Ochoa, M.D. and Warwick Arden, D.V.M, Ph.D.
Project: Arginine metabolism in monocytes and vascular wall

IRB-Approved Research Protocols

2008-Present Kinematics of All Terrain Vehicle Size in Adolescents Age 12-15, **PI**
3/2008-Present A Placebo-controlled, Double-blind, Dose-escalation Study to Assess the Safety, Tolerability, and Pharmacokinetics and Pharmacodynamics of Single and Multiple Intravenous Infusions of CytoFab™ (AZD9773) in Patients with Severe Sepsis, **PI**

2007-Present Prospective evaluation of sputum Staphylococcus aureus resistance patterns, **PI**
2006-Present Effect of Blood Transfusion on Patient Amino Acid Levels, **PI**
2006-Present Randomized, Controlled Trial of Protein Supplementation (Egg Whites) On Nutritional Status in the Critically Ill, **PI**

2004-2005 Arginase Gene Expression in Human Kidney and Liver, **Co-Investigator**
2004-Present Red Blood Cell Arginase and Immunosuppression, **Co-Investigator**
2004-Present EPO-ICU-002 A Randomized Double-Blind Placebo-Controlled Study to Determine the Efficacy and Safety of Epoetin Alfa in Critically Ill Subjects, **Co-Investigator**

2004-Present A Prospective Randomized Double-Blind Placebo-Controlled, Dose Ranging Multi-Center Study of the Safety and Efficacy of Three Days Continuous Infusion of GR270773 in the Treatment of Suspected or Confirmed Gram Negative Sepsis in Adults, **Co-Investigator**

2004-Present A Phase III, Randomized, Controlled, Open-Label, Multicenter, Parallel-Group Study Using Provisions for Exception from Informed Consent Requirements Designed to Evaluate the Safety and Efficacy of Poly-SFH-P Injection [Polymerized Human Hemoglobin (Pyridoxylated), PolyHeme™] When Used to Treat Patients in Hemorrhagic Shock Following Traumatic Injuries Beginning in the Prehospital Setting, **PI**

2003-2005 Bridging the Spanish-English Language Barrier in Surgical Practice, **PI**
2003-2004 Efficacy and Safety of Drotrecogin Alfa (Activated) in Adult Patients with Early Stage Severe Sepsis, **PI**

2003-2004 Long-term Outcome of Pediatric Amputations for Trauma, **PI**
2003-2004 Retrospective Analysis of Laparoscopic Appendectomy in the Third Trimester of Pregnancy, **PI**
2003-Present Subcellular Localization of Human Arginase in Trauma, **PI**
2003-2005 Arginase Metabolism in Patients with SIRS, **PI**
2002-Present Catecholamines and Human Mononuclear Cell Arginase, **PI**
2002 Human Spleen Arginase, **PI**
2002 Retrospective Analysis of All Terrain Vehicle Injuries, **PI**
2002 Retrospective evaluation of safety and efficacy of indwelling pleural drainage in the management of pleural effusion

2001-2003 Double-Blind, Placebo-Controlled Prospective Trial of L-arginine Supplementation in Critically Ill Trauma Patients”, **Co-Investigator**

1999 Evaluation of Western Blot Analysis of Arginase in Human Cells, **PI**
1998 The Metabolism of L-Arginine in the Critically Ill Trauma Patient, **Sub-Investigator**
1992 Changes in Pulmonary Dead Space Ventilation during Hypoxia at Altitude” (Himalayas, Karakoram, Pakistan), Pulmonary Division, Department of Medicine, University of Kentucky, **Co-Investigator**

1988 Nicardipine vs Sodium Nitroprusside in Postoperative Hypertension, Department of Anesthesia, Duke University Medical Center, **Research Assistant**