

# Andrew Coleman Bernard

## I. Professional Information

Office Address: C222 Division of General Surgery  
Department of Surgery, University of Kentucky College of Medicine  
Lexington, Kentucky  
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## II. Education

1990      B.A., Human Studies, University of Kentucky

## III. Professional Education

7/1992-6/1993      Student Fellowship, Anatomic and Clinical Pathology, University of  
Kentucky College of Medicine  
8/1990-5/1995      M.D., University of Kentucky College of Medicine  
7/1995-6/2002      General Surgery Residency, University of Kentucky College of Medicine,  
7/2002-6/2003      Fellowship, Surgical Critical Care, University of Kentucky College  
of Medicine  
12/07-Present      Masters of Science Program, Clinical and Translational Sciences, University of  
Kentucky (expected graduation 5/12)

## IV. 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

## V. Licensure

1996      Kentucky

## VI. Hospital Privileges

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

## VII. Present Positions

7/01/04-Present      Assistant Professor of Surgery, UK College of Medicine, Lexington,  
Kentucky

## VIII. Previous Positions

12/04-12/06      Staff Surgeon, Georgetown Community Hospital  
7/01/03-12/31/04      Staff Surgeon, Saint Joseph East Hospital, Lexington, Kentucky  
7/2003-6/2004      Clinical Instructor, Department of Surgery, UK College of Medicine,  
Lexington, Kentucky  
2/1990-7/1995      Communications Technician, Ground Transport and Educator  
Univ of KY Hospital Aeromedical Service, Full and Part-time  
2/1987-9/1988      Research Assistant

5/1988-8/1988 Univ of KY Hospital Cardiovascular Risk Research Program, Part-time  
Research Assistant,  
Department of Anesthesia, Duke University Med Center, Full-time  
12/1986-4/1990 Emergency Medical Technician  
Anderson County EMS, Lawrenceburg, Kentucky, Full and Part-time

## IX. 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 Epoietin 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**

## **X. Awards/Honors**

- 6/2008 Medical Student Teaching Award  
 11/2007 Ward O. Griffen Award for Student Teaching  
 4/2008 Dean’s Physician Scientist Award  
 10/3/2007 Ward O. Griffen Award for Student Teaching  
 9/23/07 Clinical Clerkship Teaching Award  
 1/07 Wyeth Research Scholarship, Eastern Association for the Surgery of Trauma  
 Foundation  
 9/20/06 Clinical Clerkship Teaching Award  
 9/20/06 Ben Eiseman Award for Excellence in Resident Education  
 9/2006 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, 2<sup>nd</sup> 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

## **XI. 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

## **XII. Committees**

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

### XIII. Editorial Boards

American Surgeon  
Cellular and Molecular Life Sciences  
American Journal of Critical Care

### XIV. Other Administrative and Scholarly Experience

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 – Surgery Dept., MIS Section  
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

**XV. Teaching**

- 1999              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
- 2007-2008       Med 815-Introduction to Clinical Research (Each semester, Spring 2007-present)

**XVI. Research Support**

Application Submitted 1-20-09-1R01HL098015-01 (Career Award)

**Principal Investigator**

“RBC Transfusion and T-cell activation”

4 years, \$1,821,342

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

Application Submitted 6-13-07-NIH/NHLBI-K23 (Career Development Award)

**Principal Investigator**

“Transfusion and T-cell Function-Implications for Surgical Patients”

5 years, \$669,163

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 nasoenteral 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**

"Effect of Beta Adrenergic Blockade on L-arginine Metabolism after Trauma"

7/1/99-7/1/00, \$2478.35

## **XVII. Invited Lectureships**

1. "ATV Safety in Youth-An Innovative Approach". Leadership Kentucky. Lexington, KY. July 9, 2009.
2. "Damage Control Resuscitation". Trauma Institute Seminar, Department of Surgery, University of Louisville College of Medicine, Louisville, May 21, 2009.
3. "It's the Patient, Doctor!-Keeping Your Compass Oriented Despite Conflicting Cues". University of Kentucky Graduating Class, Dean's Colloquium. May 16, 2009.
4. "Donation after Cardiac Death-One Hospital's Journey". Critical Care of the Organ Donor Symposium, Kentucky Organ Donor Affiliates, Louisville, KY, May 8, 2009.
5. Toward A Safer All-terrain Vehicle for Youth. Spring Conference. Center for Clinical and Translational Sciences. Lexington, Kentucky. April 23, 2009.
6. "Permissive Hypotension." Montgomery County Emergency Medical Services. Training Symposium. Co-sponsored by UK Healthcare Outreach. Mt Sterling, KY. March 17, 2009.
7. "Penetrating Torso Injuries." Montgomery County Emergency Medical Services. Training Symposium. Co-sponsored by UK Healthcare Outreach. Mt Sterling, KY. March 17, 2009.
8. "Kentucky's Trauma System-Statement of Need" Trauma Center Verification Conference. KY Trauma Advisory Committee. Versailles, KY. January 6, 2009.
9. "Transfusion and T cell Function." Fall Conference. Center for Clinical and Translational Sciences. Lexington, Kentucky. October 28, 2008.
10. "What's New in Trauma Care?" Ward O. Griffen Surgical Society, UK, Lexington, September 18, 2008.

11. "Blood Products in Acute Care Surgery-Past, Present and Future". Kentucky Association of Blood Banks. Lexington, Kentucky September 9, 2008.
12. "Solid Organ Transplantation-Fundamental Principles in the Context of Organ Shortage", Grand Rounds, Department of Surgery, UK College of Medicine. September 3, 2008.
13. "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.
14. "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.
15. "The Disruptive Physician". University of Kentucky Graduating Class, Dean's Colloquium. May 8, 2008.
16. "Donation after Cardiac Death". Southern Surgeons Club 2008 Meeting. Lexington, Kentucky. April 21, 2008.
17. "Contemporary Management of the PolyTrauma Patient". Association Osteosynthesis Visiting Professorship (AOVP). Lexington, Kentucky. April 19, 2008.
18. "Perioperative Critical Care". Obstetrics-Gynecology Conference. March 25, 2008.
19. "Transfusion-Associated Immune Suppression-Red Cell Arginase as A New Target." Department of Surgery Research Colloquium. February 21, 2008.
20. "Preventing and Treating Infections in the ICU." Department of Oral and Maxillofacial Surgery Grand Rounds, University of Kentucky, 12-4-07.
21. "Trauma-Kentucky's Unrecognized Disease". Kentucky Rural Health Association Fall Conference, 11-28-07.
22. "Red Blood Cell Arginase Suppression of T-Cell Proliferation." University of Kentucky Department of Surgery Grand Rounds. October 31, 2007.
23. "MRSA-A Pathogen in Evolution." University of Kentucky Department of Emergency Medicine Conference, 10-4-07.
24. "Appropriate Use of Antimicrobials in Surgery-Pneumonia and Skin and Soft Tissue Infections." UK College of Medicine Surgical Clerkship Teaching Conference 10-3-07.
25. "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.
26. "Supporting the Gravely Ill Patient Who is a Potential Organ Donor. University of Kentucky Department of Surgery Grand Rounds." September 19, 2007.
27. "Safe, Quality Evidence-Based Surgery: Transfusions, Mechanical Ventilation and Patient Identification." University of Kentucky Department of Surgery Grand Rounds. September 12, 2007.
28. "Trauma to the Head and Neck". East Kentucky EMS Symposium. Slade, Kentucky. July 7, 2007.

29. "Pediatric ATV Injuries: Severe and Surgical." Georgetown-Scott County Trauma Symposium. May 18, 2007.
30. "The Effect of Transfusion on T-cells". Immunology Musings, Department of Immunology, University of Kentucky College of Medicine, Lexington, January 10, 2007.
31. "Repair of Penetrating Wounds to the Hollow Viscera." University of Kentucky Grand Rounds. January 10, 2007.
32. "The PolyHeme Trauma Trial-An Update". Trauma Institute Seminar, Department of Surgery, University of Louisville College of Medicine, Louisville, December 19, 2006.
33. "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.
34. "How to Avoid Getting Admitted to a Trauma Center", UK Healthcare Public Health Initiative, Lexington Public Library, Lexington, KY, October 28, 2006
35. "Cholelithiasis." University of Kentucky Grand Rounds. September 13, 2006.
36. "Trauma, Organ Failure and How PolyHeme Saves Lives". East Kentucky EMS Symposium. Slade, Kentucky. July 8, 2006.
37. "Spinal Immobilization-Why Do We Need It?" Georgetown-Scott County EMS Trauma Symposium, May 19, 2006.
38. "Winning Friends and Influencing Patients". University of Kentucky Graduating Class, Dean's Colloquium. May 19, 2006.
39. "ATV Injury Prevention: Opportunities to Reduce Brain Injury in Kentucky". Brain Injury Association of Kentucky, Annual Meeting. Lexington, Kentucky. April 21, 2006.
40. "Trauma System Development in Kentucky-An Update." 3<sup>rd</sup> Annual UK Hospital trauma Center Pre-Hospital Quality Assurance Luncheon. Lexington, Kentucky. April 21, 2006.
41. "Hemoglobin-Based Oxygen Carriers-Current Status and Predictions for the Future." Southern Society of Clinical Surgeons Meeting, April 12, 2006.
42. "Special Interest Groups in Trauma-Welcome to the ATV Belt"-Kentucky trauma Symposium, Louisville, Kentucky, November 3, 2005.
43. "Roles and Expectations of Medical Interpreters-A Panel Discussion", Moderator. First Annual UK Medical Interpreters Conference, Lexington, Kentucky, July 29, 2005.
44. "What the Radiologist Needs to Know About Penetrating Truncal Trauma"; Clinical Lecture Series, Department of Radiology, UK College of Medicine, May 9, 2005.
45. "Clinical Research Using FDA Provisions for Exception from Consent Requirements." Department of Biology, UK College of Arts and Sciences, April 1, 2005.
46. "Transfusion for a Number? Just Say, 'No'." Grand Rounds, Department of Surgery, University of Kentucky College of Medicine, November 3, 2004.

47. "Conducting Clinical Research in the Pre-hospital Environment." Association of Air Medical Services Annual Meeting. Cincinnati, OH. October 25, 2004.
48. "Blood Substitutes in Pre-Hospital Research-FDA Regulations and Oversight." American Association of Professional Coders, Kentucky Chapter Meeting, October 19, 2004.
49. "Hemoglobin-Based Oxygen Therapeutics." Grand Rounds, Department of Surgery, University of Louisville Medical School, February 6, 2004.
50. "The Emerging Role of Blood Substitutes in Trauma." Fourteenth Annual University of Kentucky Trauma/Emergency Symposium, November 6, 2003.
51. "Injury Prevention in Young Adults." Jessamine County Board of Education. 1/27/03.
52. "Spinal Immobilization-Fact and Fiction." Thirteenth Annual University of Kentucky Trauma/Emergency Symposium, November 8, 2002.
53. "Blunt Cardiac Injury-Principles of Treatment." Thirteenth Annual University of Kentucky Trauma/Emergency Symposium, November 8, 2002.

#### **XVIII. Abstracts**

1. 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.
2. **Bernard A**, 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, Pittsburg, PA, Accepted.
3. Procter L, Meier C, Woodward J, McNamara, **Bernard AC**. Amino acid transport in RBC's. American Association for the Surgery of Trauma 2009, Pittsburg, PA, Accepted.
4. 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 2009, Pittsburg, PA, Accepted.
5. 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.
6. 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.
7. 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.
8. **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.

9. 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.
10. 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.
11. 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.
12. 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.
13. **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.
14. 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.
15. 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.
16. 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.
17. 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.
18. **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
19. 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.
20. 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.
21. 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<sup>®</sup>) on Stress

Levels of Care Providers. American Association of Critical Care Nurses, May 2005, New Orleans, LA.

22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. **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.
31. **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.
32. **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.
33. **Bernard AC**, Arnold S, Freedman KO, Mullett TW. Treatment of malignant pleural effusion using indwelling drains. Society of Surgical Oncology. Los Angeles, CA, March 2003.
34. 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.

35. **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.
36. **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.
37. **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.
38. **Bernard AC**, Mullett TW, Arnold S. Indwelling pleural drainage safely palliates malignant effusion, American College of Surgeons-Kentucky Chapter Meeting. April 2002.
39. 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.
40. 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.
41. **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.
42. 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.
43. **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, 61<sup>st</sup> Annual Meeting, Toronto, CA, February 2000.
44. **Bernard AC**, Mistry SK, Morris SM, Tsuei BJ, Maley ME, Boulanger BR, Kearney PA, Ochoa JB. Alterations in L-arginine metabolizing enzymes in trauma. Region IV Resident Paper Competition, Committee on Trauma, American College of Surgeons, Charlotte, NC, November 19, 1999.
45. **Bernard AC**, Tsuei BJ, Shirley LA, Maley ME, Boulanger BR, Kearney PA, Ochoa JB. Trauma induces immune cell iNOS expression but paradoxically decreases plasma nitric oxide metabolites- A role for arginase regulation. Kentucky Chapter, Committee on Trauma, American College of Surgeons, August 1999.
46. **Bernard AC**, Morris SM, Tsuei BJ, Boulanger BR, Kearney PA, Ochoa JB. Arginase protein expression is increased after trauma-potential modulation of nitric oxide production. American Association for the Surgery of Trauma, Boston, September 1999.
47. **Bernard AC**, Maley ME, Fitzpatrick EA, Tsuei BJ, Gellin GL, Arden WA, Boulanger BR, Kearney PA, Ochoa JB. Trauma-induced arginase activity is mediated by endogenous catecholamines and inhibited by beta antagonists. American College of Surgeons, Kentucky Chapter, Spring Meeting, May 1999.

48. **Bernard AC**, Arden WA. Cytokines TNF/IFN and neuropeptide CGRP suppress smooth muscle arginase activity. Fourth International Shock Congress, Philadelphia, June 1999.
49. **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.
50. **Bernard AC**, Johnston T, Chen C, Wu G, Reddy K, Ranjan D. EBV immortalized human B cells grown in SCID mice retain their sensitivity to curcumin inhibition. Southeastern Surgical Congress, Tampa, FL, 2/99.
51. Williams JS, **Bernard AC**, Johnson SB. Benefits of an outreach aeromedical safety program. National Air Medical Transport Conference, Salt Lake City, UT, 10/92. (Air Medical Journal 1992;10:10.)
52. Williams JS, **Bernard AC**, Johnson SB. Evaluation of the effectiveness of an outreach aeromedical safety program. National Air Medical Transport Conference, Salt Lake City, UT, 10/92. (Air Medical Journal 1992;10:10.)
53. Goldberg JS, **Bernard AC**, Marks RM, Sladen RN. Simulation technique for difficult intubation. International Association for Anesthesia Research, Orlando, FL, 4/89.

#### **XIX. Manuscripts**

1. Goldberg JS, **Bernard AC**, Marks RM, Sladen RN. Simulation technique for difficult intubation-teaching tool or new hazard? *J Clin Anesth* 1990;2:21-6.
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.
5. Ochoa JB, **Bernard AC**, Figert PL, Maley ME, Tsuei BJ, Boulanger BR, Kearney PA. Trauma increases extra-hepatic arginase activity. *Surgery* 2000;127:419-26.
6. **Bernard AC**, Mastrangelo M, Schwartz RW. Laparoscopic localization and management of lower gastrointestinal vascular lesions. *Current Surgery* 2000;57:318-320.
7. **Bernard AC**, Schwartz RW. Lower gastrointestinal vascular lesions-Current concepts in diagnosis and treatment. *Current Surgery* 2000;57:313-317.
8. **Bernard AC**, Hagihara PF. Rigid Sigmoidoscopy for Lower GI Hemorrhage. *Contemporary Surgery* 2000;56:550.
9. Lovett JE, Cornette P, Fink BF, **Bernard AC**. Evaluation of microdialysis as a technique for free flap monitoring. *Plastic Surgery Research Council* 2000:155.

10. **Bernard AC**, Mistry SK, Morris SM, O'Brien WE, Tsuei BJ, Maley ME, Shirley LA, Kearney PA, Boulanger BR, Ochoa JB. Alterations in Arginine Metabolizing Enzymes in Trauma. *Shock* 2001;15:215-9.
11. Ochoa JB, **Bernard AC**, O'Brien WE, Griffen MM, Maley ME, Rockich AK, Tsuei BJ, Boulanger BR, Kearney PA, Morris SM. Arginase I expression and activity in human mononuclear cells after injury. *Ann Surg* 2001;233:393-9.
12. **Bernard AC**, Hagihara PF, Burke VJ, Kugelmas M. Endoscopic localization and management of colonic bleeding in patients with portal hypertension. *Surg Laparosc Endosc Percutan Tech* 2001;11:195-8.
13. Lovett JE, Fink BF, **Bernard AC**, Ochoa JB. Analysis of nitric oxide activity in prevention of reperfusion injury. *Ann Plast Surg* 2001;46:269-73.
14. Tsuei BJ, **Bernard AC**, Shane MD, Shirley LA, Maley ME, Boulanger BR, Kearney PA, Ochoa JB. Surgery induces human mononuclear cell arginase I expression. *J Trauma* 2001;51:497-502.
15. Barksdale AR, **Bernard AC**, Tsuei BJ, Boulanger BR, Kearney PA, Ochoa JB. Synergy of catecholamines with T-Helper II cytokines induces arginase in macrophages. *Surg Forum* 2001:156-159.
16. **Bernard AC**, Gellin G, Ochoa J, Mentzer R, Arden W. Tumor Necrosis Factor (TNF) Suppresses Arginase I Gene Expression During Induced Nitric Oxide (NO) Synthesis in Rat Aortic Vascular Smooth Muscle. *Surg Forum* 2003;S98.
17. Boulanger BR, Barnes SL, **Bernard AC**. Epiploic appendagitis-An emerging diagnosis for general surgeons. *Am Surg* 2002;68:1022-5.
18. **Bernard AC**, Mullett TW. Mediastinal granuloma complicating histoplasmosis. *J KY Med Assoc* 2003;101:12-14.
19. Barksdale AR, **Bernard AC**, Maley ME, Gellin GL, Kearney PA, Boulanger BR, Tsuei BJ, Ochoa JB. Regulation of arginase expression by T-helper II cytokines and isoproterenol. *Surgery* 2004;135:527-35.
20. Barnes SL, **Bernard AC**, Boulanger BB, Kearney PA. Pneumobilia following blunt abdominal trauma, a self limited condition? *J Trauma*. 2004;70:733-6.
21. Barnes SL, Shane M, **Bernard AC**, Boulanger BB. Laparoscopic Appendectomy after 30 weeks Pregnancy: Report of two cases and description of technique. *Am Surg* 2004;70:733-6.
22. **Bernard AC**, Barnes SL, Boulanger BR. Multi-level blunt duodenal injury. *J Trauma* 2004;57:1108-1110.
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.
24. Tsuei BJ, **Bernard AC**, Barksdale AR, Meier C, Boulanger BR, Kearney PA. Supplemental enteral arginine is metabolized to ornithine in injured patients. *J Surg Res* 2004;114:247.
25. Tsuei BJ, **Bernard AC**, Boulanger BR, Kearney PA. The Open Peritoneal Cavity-Etiology Correlates with the Likelihood of Fascial Closure. *Am Surg* 2004;70:652-6.

26. Barnes S, **Bernard A**, Kearney P, Boulanger B: A rare case of HITTS following prophylactic LMWH therapy in a blunt trauma victim. *Injury* 2005;36:347-351.
27. **Bernard AC**, Winstead SP, Mentzer RM. Changing the paradigm for transfusing the anemic patient in an acute care environment. *J KY Med Assoc* 2005;103:86-91.
28. **Bernard AC**, Butler L, Crump S. Hand port assisted laparoscopic (HAL) cholecystectomy concurrently with cesarean section-A safe approach. *Surg Endosc Lap and Perc Tech* 2005;15:283-4.
29. **Bernard AC**, Summers A, Thomas J, Ray M, Rockich AK, Barnes SL, Boulanger BR, Kearney PA. Novel Spanish Translators for Acute Care Nurses and Physicians-Utility and Impact upon Practitioner Stress. *Am J Crit Care* 2005;14:545-550.
30. **Bernard AC**, Wagers M, Ray M, Rockich A, Barton-Baxter M, Barnes SL, Boulanger B, Tsuei B, Kearney P. Impact of Language Barrier On Acute Care Medical Professionals Is Dependent upon Role. *J Prof Nur* 2006;22:355-8.
31. Schulz-Burton MD, Meier C, Freeman S, Kearney P, Boulanger B, Chang P, May J, Lopez N, **Bernard A**. Peripheral monocyte arginase over-expression in human systemic inflammatory response syndrome (SIRS). *JACS* 2005; 201:S29.
32. Magnuson BL, Clifford TM, Hoskins L, **Bernard AC**. Enteral Nutrition and Drug Administration, Interactions and Complications. *Nutrition Clin Pract* 2005;20:618-624.
33. Inayat MS, **Bernard AC**, Gallicchio VS, Garvy BA, Elford HL and OR Oakley. Oxygen carriers: A selected review. *Transfusion and Apheresis Science* 2006;34:25-32.
34. **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. *J Trauma* 2007;63:1108-12.
35. Gregory GL, Powell OM, Porter JJ, Tekulve MR and **AC Bernard**. Delayed Endotracheal Tube Obstruction by Chewing Gum Aspiration in a Cervical Spine-Injured Patient. *The Internet Journal of Anesthesiology* 2008:15:2.
36. **Bernard AC**, Kasten M, Meier CF, Manning E, Freeman S, Adams W, Chang P, Boulanger BR and PA Kearney. Red Blood Cell Arginase Suppresses Jurkat (T-cell) Proliferation by Depleting Arginine. *Surgery* 2008;143:286-91.
37. Lee C, **Bernard AC**, Coughenour J, Chang P, Fryman L, Boulanger, B, Kearney P. Imaging that May Delay Inter-Facility Transport of Trauma Victims: A Survey Study of Referring Physicians. *J Trauma*, 2008;65:1359-1363.
38. Moore EE, Moore FA, Fabian T, **Bernard AC** et al. Human Polymerized Hemoglobin for the Treatment of Hemorrhagic Shock When Blood is Unavailable: The USA Multicenter Trial. *J Am Coll Surg*, 2009;208:1-13.
39. **Bernard AC**, Davenport D, Chang P, Vaughan T, Zwischenberger J. Intraoperative Transfusion Of 1-2 Units Of Packed Red Blood Cells Is Associated With Increased 30-Day Mortality, Surgical Site Infection, Pneumonia, and Sepsis In General Surgery *J Am Coll Surg* 2009;208:931-937.

40. **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*, 2009 –in press. [Epub ahead of print May 6]
41. Kluemper C, Rogers A, Fallat M, **Bernard A**. Genitourinary Injuries in Pediatric ATV Trauma - A Mechanistic Relationship? *Urology*, 2009 – in press. [Epub ahead of print Nov. 13]
42. McHugh PP, Davenport DL, **Bernard AC**, Ranjan D and Gedaly R. Laparoscopic versus Open Splenectomy: A Multicenter Analysis of 1247 Patients. *Arch Surg, In Submission*.
43. Procter L, **Bernard AC**, Kearney PA. Strangulated Appendix After TAPP Repair of Bilateral Inguinal Hernias. *J Laparoscop Endoscop and Perc Techniques, In Submission*.
44. Procter L, **Bernard A**. Transfusion and Infection. *Surg Infections, Submitted*.
45. Procter L, **Bernard AC**, Ginn G, Pienkowski D. Plank fence penetration into automobiles- Implications for trauma prevention initiatives. *J Forensic Sci, In Submission*.
46. **Bernard AC**, Mullineaux DR, Auxier JT, Forman J, Shapiro R, Pienkowski D. Pediatric Anthropometrics are Inconsistent with Current Guidelines for Assessing Rider Fit on All Terrain Vehicles. *J Ped Surg, Submitted*.
47. Procter L, Davenport D, **Bernard A**, Zwischenberger J. General Surgical Operative Duration Increases Risk-Adjusted Infectious Complication Rates and Length of Hospital Stay. *J Am Coll Surg, Submitted*.
48. Page A, Bush H, **Bernard A**, Kearney P. Pelvic fractures are associated with colon injury. *J Trauma*, in preparation.

## XX. Book Chapters

1. **Bernard A**, Kearney P. *Systemic Inflammatory Response Syndrome and Sepsis*. Internal Medicine Clerkship Handbook, First Edition. 2006, McGraw-Hill.
2. Bottiggi A, **Bernard A**. *Pneumothorax*. Internal Medicine Clerkship Handbook, First Edition. 2006, McGraw-Hill.
3. Barnes SL, Swintosky M, **Bernard AC**, Kearney PA. *Perioperative Nutrition*, In A.S.P.E.N. Nutrition Support Practice Manual, 2<sup>nd</sup> Edition, 2005, Merritt R (ed).
4. Pritts T and **AC Bernard**. Multiple Organ Dysfunction. Textbook of Critical Care, 7th Ed. Rippe and Irwin 2010, *In preparation*.