

# **Eric J. Ley, M.D.**

## **CURRICULUM VITAE**

March 30, 2015

### **Contact Information:**

Cedars-Sinai Medical Center  
Department of Surgery  
8700 Beverly Blvd., Suite MOT 650W  
Los Angeles, CA 90048

### **Education:**

1994 University of California, Berkeley, BA  
(Mentor: Gerald Westheimer, PhD)  
2000 Ohio State University, M.D.  
(Mentors: E. Christopher Ellison, MD, Ed Ray, PhD)  
2005 University of Southern California, General Surgery Residency  
(Mentors: Jeff Peters, MD, Robert Beart MD)  
2009 Cedars-Sinai Medical Center, Trauma/Critical Care Fellowship  
(Mentors: Ali Salim, MD, Bruce Gewertz, MD)

### **Licensure:**

2001 Board of Medical Examiners, California, A77295  
2001 Drug Enforcement Agency, FL0144383  
2008 Advanced Trauma Life Support (ATLS), Instructor  
2010 Advanced Surgical Skills for Exposure in Trauma (ASSET)  
2011 Radiography and Fluoroscopy X-ray Supervisor and Operator  
2012 Advanced Trauma Life Support (ATLS), Coordinator

### **Board Certification:**

2006 American Board of Surgery, Surgery #51043  
2009 American Board of Surgery, Critical Care #2680

### **Professional Experience:**

July 1993 to Aug. 1996 Research Associate, Westheimer Neurophysiology Laboratory, University of California, Berkeley  
July 2005 to June 2006 Visiting Assistant Professor of Research, Department of Surgery, Keck School of Medicine, University of Southern California  
July 2006 to June 2008 Assistant Professor of Research, Department of Surgery, Keck School of Medicine, University of Southern California  
July 2005 to June 2009 Attending Staff, Surgery, LAC+USC Medical Center  
Dec. 2008 to present Attending Staff, Surgery, Cedars-Sinai Medical Center

July 2009 to Dec. 2013	Assistant Professor of Surgery, Department of Surgery, Division of Trauma and Critical Care, Cedars-Sinai Medical Center
July 2009 to June 2014	Health Sciences Assistant Clinical Professor, University of California Los Angeles
Dec 2011 to present	Medical Team Manager, Urban Search and Rescue Los Angeles County (Volunteer)
June 2012 to present	Medical Director, Cedars-Sinai Surgical Intensive Care Unit
June 2012 to present	Program Director, Cedars-Sinai Trauma and Critical Care Fellowship
September 2013 to present	Member, Early Career Reviewer, NIH Clinical and Integrative Cardiovascular Sciences (CICS) study section
January 2014 to present	Associate Professor of Surgery, Department of Surgery, Division of Trauma and Critical Care, Cedars-Sinai Medical Center
July 2014 to present	Health Sciences Associate Clinical Professor, University of California Los Angeles

**Professional Activities:**

2000-present	American College of Surgeons
2005-present	Society of Graduate Surgeons, University of Southern California
2012-present	Association of Academic Surgeons
2013-present	American Association for the Surgery of Trauma

**CSMC Professional Activities:**

2009	Senior Scholar, Cedars-Sinai Clinical Scholars
2009-present	Trauma Performance Improvement Committee
2009-present	Trauma Quality Improvement
2010-present	Mortality Review, Department
2010-present	Critical Care Committee
2010-present	IRB Reviewer, Department
2010	Cedars-Sinai Clinical and Translational Workshop
2012-2013	IRB Committee, Institution
2013-2014	Patient Safety Committee
2013	Standards of Care of Patients with Terminal Illnesses
2014-present	Post-Operative Blood Utilization

**Other Professional Activities:**

2011	Association for Academic Surgery/Society of University Surgeons Grant Writing Workshop
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**Honors and Special Awards:**

1994	Henke Award for Research University of California, Berkeley
1994	Honor Program, Molecular and Cellular Biology, University of California Berkeley
1998	Ohio State Medical Research Foundation Leadership Award, Nominee
1999	Ohio State Medical Research Foundation Leadership Award, Recipient
2000	Letter of Recognition, Ohio State University Board of Trustees
2000	President's Leadership Award, Ohio State University
2002 and 2005	Resident Mid-Year Teaching Award, USC Department of Surgery
2004 and 2005	Resident Teaching Award, USC Department of Surgery
2005	Outstanding House Staff Award, USC Keck School of Medicine
2009 and 2010	Research Award, American Association for the Surgery of Trauma
2011	Circle of Friends, Cedars-Sinai Medical Center

**Research Grants and Fellowships Received:**

July 2007 to June 2008	Investigator Award (Ley) Involvement: PI James Zumberge Innovator Award Targeted inhibition of the EphB4 receptor Characterized and inhibited the interaction between the EphB4 receptor tyrosine kinase and the EphrinB2 ligand to demonstrate angiogenic potential	0.6 calendar 7/1/2007-6/30/2008 \$40,000
July 2010 to June 2011	Investigator Award (Ley) Involvement: PI American Association for the Surgery of Trauma Novel imaging of cerebral glucose metabolism after traumatic brain injury The purpose of this exploratory research is to determine if propranolol is a therapeutic option after, or a preventative therapy for, mild traumatic brain injury. The hypothesis is that mild traumatic brain injury reduces cerebral perfusion and propranolol increase cerebral perfusion, as assessed by novel imaging, metabolic and neurological markers, behavior analysis and a clinical trial.	0.6 calendar \$50,000
July 2011 to June 2012	Investigator Award (Ley) Involvement: PI American Association for the Surgery of Trauma Reduced autonomic hyperstimulation alters cerebral metabolism and the cerebral immune response By first establishing markers of cerebral injury (AIM 1) and then determining change after administration of beta adrenergic blockade (AIM 2), the link between reduced autonomic hyperstimulation and cerebral metabolism or cerebral immune response can be better defined.	0.6 calendar \$50,000

Jan. 2010 to Dec. 2014	W81XWH-10-1-1039 (Gewertz) Involvement: Co-investigator Department of Defense Operating room of the future The major role of this project is to improve efficiency in the operative trauma patient.	1.2 calendar  \$2,108,000
March 2012 to Feb 2014	Investigator Award (Ley) Involvement: PI Department of Health Services Improved care for children with traumatic brain injury Our research will use H9 stem cell, targeted protein receptor inhibition, microPET imaging of brain injury and clinical studies to test how targeted therapeutics with BAR blockade improves outcome in pediatric TBI patients.	0.6 calendar  \$205,550

**Patent**

Maya Koronyo, Eric Ley, Yosef Koronyo, Keith Black, Babak Kateb  
Diagnosis and monitoring of Traumatic Brain Injury by Imaging Retinal Abnormalities (Pending)

Eric Ley and Galinos Barmparas. The Optimal Vital Signs for Pediatric Emergencies (62/042053)

**Research Projects and Research Focus:**

Research in Progress

Immunological cascade due to trauma  
Beta Adrenergic Receptor and traumatic brain injury  
Resuscitation after trauma  
Human factors to improve health care safety and efficiency

**Abstract Presentations:**

1. **Ley EJ**, Hood DB, Leke MA, Rao RK, Rowe VL, Weaver FA. Endovascular Management of Iliac Vein Occlusive Disease. *Southern California Vascular Surgical Society*, April 12, 2003.
2. **Ley EJ**, Hood DB. Sensitivity of Duplex Scans for Surveillance of Endoleaks after Endovascular Aortic Aneurysm Repair. *Pacific Coast Surgical Association*, February 20, 2005.
3. **Ley EJ**, Scehnet J, Kumar SR, Beart RW, Gill PS. EphB4 is overexpressed in colon cancer and is regulated by APC. *Society for Surgical Oncology*, February 2007.
4. **Ley EJ**, Ault GT, Vukasin P, Kaiser AM, Beart RW. Continuous infusion of local anesthetic for postoperative pain management after laparotomy. *SSAT/DDW*, May 22, 2007.
5. **Ley EJ**, Ault GT, Vukasin P, Kaiser AM, Beart RW. Survival index as a predictor of colon cancer outcome. *ASCRS*, June 2007.
6. **Ley EJ**, Scehnet JS, KostECKE A, Kumar SR, Beart RW, Gill PS. The soluble monomeric form of the receptor tyrosine kinase EphB4 inhibits HT29 tumor growth in vivo. *AACR*, April 14, 2008.

7. **Ley EJ**, Scehnet J, Park R, Schroff S, Grant D, Conti, Margulies D, Salim A. The in vivo effect of propranolol on cerebral perfusion and hypoxia after traumatic brain injury. *AAST* September, 2008.
8. **Ley EJ**, Schenet J, Liu R, Kostecke A, Salim A, Beart RW, and Gill PS. Dll4-Fc and sEphB4 synergistically inhibit mesothelioma in vivo. *Western Surgical Association*, November 2008.
9. **Ley EJ**, Scehnet J, Park R, Schroff S, Grant D, Conti, Margulies D, Salim A. Propranolol dose affects cerebral perfusion after traumatic brain injury in vivo. *Association for Academic Surgery Congress*, February 2009.
10. **Ley EJ**, Scehnet J, Park R, Schroff S, Grant D, Conti, Margulies D, Salim A. Early and late propranolol dosing improve cerebral perfusion after traumatic brain injury in vivo. *Western Trauma Association*, February 2009.
11. **Ley EJ**, Schenet J, Salim A. The in vivo effect of propranolol on cerebral perfusion and hypoxia after traumatic brain injury. *67th Meeting of the American Association for the Surgery of Trauma*, Maui, Hawaii, 2008.
12. Salim A, Teixeira P, **Ley EJ**, Alban R, Inaba K, Wilson M, Margulies D. Serum ethanol levels: predictor of survival after severe traumatic brain injury. *67th Meeting of the American Association for the Surgery of Trauma*, Maui, Hawaii, 2008.
13. **Ley EJ**, Scehnet J, Schroff S, Beart RW, Salim A. Dll4-FC and sEphB4 synergistically inhibit mesothelioma tumors in vivo. *Western Surgical Association 2008 Annual Scientific Session*, Santa Fe, New Mexico, 2008.
14. **Ley EJ**. Angiogenesis. *Saint George Society Invited Lecture*, USC Keck School of Medicine. March 2008.
15. Magner D, Kohanzadeh S, Mirocha J, **Ley EJ**, Margulies D, Salim A. Gender, hypotension, and mortality in trauma. *Southern California Chapter of the American College of Surgeons*, Santa Barbara, CA, 2009.
16. **Ley EJ**, Park R, Dagliyan G, Conti PS, Margulies DR, Salim A. The effect of propranolol dose on cerebral perfusion after traumatic brain injury in vivo. *4th Annual Academic Surgical Congress*, Fort Myers, FL, 2009.
17. Salim A, **Ley EJ**, Cryer G, Margulies D, Tillou A. Positive serum ethanol level is associated with improved outcome in severe traumatic brain injured patients. *80th Annual meeting of the Pacific Coast Surgical Association*, San Francisco, CA, 2009.
18. Berry C, **Ley EJ**, Mirocha J, Margulies DR, Salim A. Sexual dimorphism does play a role in outcomes in moderate to severe traumatic brain injury. *68th Meeting of the American Association for the Surgery of Trauma*, Pittsburgh, PA, 2009.
19. Salim A, Malinoski D, Schulman D, Desai C, Navarro S, **Ley EJ**. The combination of an online organ and tissue registry with a public education campaign can help increase the number of organs available for transplantation. *68th Meeting of the American Association for the Surgery of Trauma*, Pittsburgh, PA, 2009.
20. Salim A, Schulman D, **Ley EJ**, Navarro S, Chan LS. Contributing factors for the willingness to donate organs in the Hispanic American populations. *117th Meeting of the Western Surgical Association*, San Antonio, Texas, 2009.

21. Edwards M, **Ley EJ**, Dearing D, Mirocha J, Amini A, Allins A, Margulies D, Salim A. Defining hypotension in moderate to severely injured trauma patients: raising the bar for the elderly. *Southern California Chapter of the American College of Surgeons*, Santa Barbara, CA, 2010.
22. Berry C, Alban R, **Ley EJ**, Mirocha J, Margulies DR, Salim A. Serum ethanol levels in patients with moderate to severe traumatic brain injury influence outcomes: a surprising finding. *Southern California Chapter of the American College of Surgeons*, Santa Barbara, CA, 2009.
23. Alban RF, Berry C, Mirocha J, Margulies DR, **Ley EJ**, Tillou A, Salim A. Does health insurance affect outcomes after traumatic brain injury? Analysis of the national trauma databank. *Southern California Chapter of the American College of Surgeons*, Santa Barbara, CA, 2009.
24. Berry C, **Ley EJ**, Mirocha J, Margulies DR, Tillou A, Salim A. Severe traumatic brain injury: do pregnant women have improved outcomes? *Southern California Chapter of the American College of Surgeons*, Santa Barbara, CA, 2009.
25. **Ley EJ**. Beta Blockers in Trauma. *Southern California Chapter of the American College of Surgeons*. January 2010.
26. Berry C, **Ley EJ**, Mirocha J, Margulies DR, Salim A. Race does play a role in mortality in moderate to severe traumatic brain injury. *5th Annual Academic Surgical Congress*, San Antonio, TX, 2010.
27. Berry C, **Ley EJ**, Mirocha J, Margulies D, Salim A. The optimal heart rate to reduce mortality after traumatic brain injury. *5th Annual Academic Surgical Congress*, San Antonio, TX, 2010.
28. Salim A, Berry C, **Ley EJ**, Schulman D, Desai C, Navarro S, Malinoski D. In-house coordinator programs improve conversion rates for organ donation. *62nd Annual Meeting of the Southwestern Surgical Congress*, Tucson, AZ, 2010.
29. Berry C, **Ley EJ**, Mirocha J, Margulies DR, Tillou A, Salim A. Do pregnant women have improved outcomes after traumatic brain injury? *20th Annual Meeting of the Society of Black Academic Surgeons*, Durham, NC, 2010.
30. Berry C, **Ley EJ**, Mirocha J, Salim A. Aggressive heart rate reduction may increase mortality after trauma. *20th Annual Meeting of the Society of Black Academic Surgeons*, Durham, NC, 2010.
31. Berry C, Malinoski D, **Ley EJ**, Schulman D, Desai C, Navarro S, Salim A. Ethnicity affects organ donation rates in Southern California. *20th Annual Meeting of the Society of Black Academic Surgeons*, Durham, NC, 2010.
32. **Ley EJ**, Berry C, Mirocha J, Srour M, Margulies DR, Salim A. When does crystalloid resuscitation increase mortality in the elderly and non-elderly trauma patient? *69th Annual Meeting of the American Association for the Surgery of Trauma*, Boston, MA, 2010.
33. Edwards MR, Felder S, **Ley EJ**, Srour M, Mirocha J, Margulies DR, Salim A. Venous thromboembolism in coagulopathic surgical ICU patients: is there a benefit to chemical prophylaxis? *69th Annual Meeting of the American Association for the Surgery of Trauma*. Boston, MA, 2010.
34. Salim A, Schulman D, **Ley EJ**, Berry C, Navarro S, Chan LS. The media can increase awareness and change beliefs of organ donation in the Hispanic American population. *69th Annual Meeting of the American Association for the Surgery of Trauma*, Boston, MA, 2010.

35. Salim A, Malinoski D, **Ley EJ**, Schulman D, Desai C, Navarro S, Dafoe D. The effect of trauma center designation on organ donor outcomes in Southern California. *69th Annual Meeting of the American Association for the Surgery of Trauma*, Boston, MA, 2010.
36. **Ley EJ**, Tillou A, Berry C, Mirocha J, Srour M, Salim A. Diabetes is an independent risk factor for mortality after isolated traumatic brain injury. *69th Annual Meeting of the American Association for the Surgery of Trauma*, Boston, MA, 2010.
37. Berry C, Tcherniantchouk O, **Ley EJ**, Salim A, Martin-Stone S, Mirocha J, Margulies D. Current practice overdiagnoses heparin induced thrombocytopenia (HIT) for surgical ICU patients. *118th Meeting of the Western Surgical Association*, Chicago, IL, 2010.
38. Hadjibashi A, Berry C, **Ley EJ**, Bukur M, Mirocha J, Salim A. Alcohol is protective for pneumonia after moderate to severe traumatic brain injury. *6th Annual Academic Surgical Congress*, Huntington Beach, CA, 2011.
39. Kurtovic S, Bukur M, Berry C, Tanios M, **Ley EJ**, Salim A. Pre-hospital hypothermia is not protective in patients with moderate to severe traumatic brain injury. *6th Annual Academic Surgical Congress*, Huntington Beach, CA, 2011.
40. Kurtovic S, Bukur M, Berry C, Taminos MB, Margulies DR, **Ley EJ**, Salim A. Pre-hospital endotracheal intubation is associated with increased mortality in isolated moderate to severe traumatic brain injury. *6th Annual Academic Surgical Congress*, Huntington Beach, CA, 2011.
41. Clond MA, Singer M, Salim A, **Ley EJ**. IL6 Knock out reduces performance on behavioral tests and increases IL1B and HSP72 levels in mice after traumatic brain injury. *6th Annual Academic Surgical Congress*, Huntington Beach, CA, 2011.
42. Srour M, Clond MA, Gangi A, Mirocha J, Bukur M, Salim A, **Ley EJ**. Evidence for CNS injury induced immune dysfunction: Elevated systolic blood pressure is specific for traumatic brain injury and associated with increased rates of pneumonia and high mortality. *6th Annual Academic Surgical Congress*, Huntington Beach, CA, 2011.
43. Berry C, Schulman D, **Ley EJ**, Anderson J, Navarro S, Chan L, Salim A. Organ donation and Hispanic American high school students-attitudes, beliefs, perceptions, and intent to donate. *Southern California Chapter of the American College of Surgeons*, Santa Barbara, CA 2011.
44. Hussain O, Srour M, Clond M, Bukur M, Malinoski D, Margulies D, Mirocha J, Salim A, **Ley EJ**. Mortality by decade for trauma patients with GCS of 3. *Southern California Chapter of the American College of Surgeons*, Santa Barbara, CA 2011.
45. Berry C, **Ley EJ**, Malinoski D, Bukur M, Margulies DR, Mirocha J, Salim A. Correlating the blood alcohol concentration with outcome following traumatic brain injury: Too much is not a bad thing. *Southern California Chapter of the American College of Surgeons*, Santa Barbara, CA 2011.
46. Bukur M, Konstantinidis A, Branco B, **Ley EJ**, Inaba K, Salim A. Management Bias: Does insurance status make a difference after splenic injury? *82nd Annual Meeting of the Pacific Coast Surgical Association*, Scottsdale, AZ 2011.
47. Berry C, **Ley EJ**, Bukur M, Malinoski D, Margulies D, Mirocha J, Salim A. Redefining hypotension in traumatic brain-injured patients. *82nd Annual Meeting of the Pacific Coast Surgical Association*, Scottsdale, AZ 2011.

48. Malinoski D, Patel M, Stephanie L, Querantes T, **Ley EJ**, Salim A. The impact of compliance with the American College of Surgeons trauma center verification requirements on organ donation related outcomes. *82nd Annual Meeting of the Pacific Coast Surgical Association*, Scottsdale, AZ 2011.
49. Berry C, **Ley EJ**, Schulman D, Navarro S, Zheng L, Chan LS, Salim A. A focused educational program after religious services in Hispanic Americans. *21st Annual Meeting of the Society of Black Academic Surgeons*, Boston, MA, 2011.
50. **Ley EJ**, Clond MA, Singer MB, Park R, Dagliyan G, Conti PS, Salim A. Beta adrenergic inhibition attenuates the reduction in cerebral glucose metabolism after traumatic brain injury. *79th Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery*, Chicago, IL, 2011.
51. Margulies DR, Russell D, Salim A, Malinoski D, **Ley EJ**, Bukur M, Chung R, Berci G. The emergent airway: Video-assisted intubation is superior to direct laryngoscopy for teaching junior residents. *79th Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery*, Chicago, IL, 2011.
52. Bukur M, Hadjibashi AA, Stolpner D, **Ley EJ**, Malinoski D, Margulies D, Salim A. Impact of pre-hospital hypothermia on transfusion requirements and outcomes. *79th Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery*, Chicago, IL, 2011.
53. Berry C, Miller C, Palestrant D, Pruett J, Bukur M, Malinoski D, Margulies D, **Ley EJ**, Salim A. Prospective evaluation of post-traumatic vasospasm: determining its clinical significance after TBI. *79th Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery*, Chicago, IL, 2011.
54. M. Cloud, M. Singer, **Ley EJ**. Inhibition Of Beta Adrenergic Signaling After Traumatic Brain Injury Improves Behavioral Performance: *Society For Neuroscience*. New Orleans, LA. November 2011.
55. Salim A, Berry C, **Ley EJ**, Schulman D, Navarro S, Zheng L, Chan LS. Increasing Organ Donation Outcomes among High School Students. *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.
56. Hadjibashi AA, Bukur M, **Ley EJ**, Mirocha J, Chung R, Malinoski D, Margulies D, Salim A. Incidence and Outcomes of Venous Thromboembolism After Inferior Vena Cava Injury. *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.
57. Felder SI, Singer MB, Chung R, **Ley EJ**, Malinoski DJ., Margulies DR, Salim A, Bukur M. Trauma Center Level Impacts Survival for Cirrhotic Trauma Patients. *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.
58. Singer MB, Clond MA, Bukur M, Chung R, Margulies DR, Salim A, **Ley EJ**. Race and Insurance Type as Predictors of Mortality after Trauma. *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.
59. Singer MB, Clond MA, Bukur MB, Margulies D R, Salim A, **Ley EJ**. Long-term Effect of Trauma Splenectomy on Blood Glucose: the Emerging Role of the Spleen as a Source of Pancreatic Stem Cells. *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.
60. Hussain ON, Singer MB, Clond M, Bukur, Salim A, Margulies DR, **Ley EJ**. Diabetes is Associated with Increased Mortality in Trauma Patients. *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.

61. Singer MB, Berry C, Chung R, **Ley EJ**, Malinoski DJ, Margulies DR, Salim A, Bukur M. Differences in Intra-Cranial Pressure Monitor Utilization and Subsequent Outcomes Between Insured and Uninsured Patients After Traumatic Brain Injury. *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.
62. Gangi A, Singer MB, Clond MA, Bukur M, Margulies DR, Salim A, **Ley EJ**. Elevated Admission Blood Pressure After Trauma: Tolerated in Elderly. *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.
63. Berry C, Clond MA, Lowenhaupt G, Rudd S, Torbati S, Bukur M, Salim A, **Ley EJ**. Does Intravenous Contrast in Elderly Trauma Patients Predict Acute Kidney Injury? *Academic Surgical Congress*, Las Vegas, Nevada. February 2012.
64. Barmparas G, Singer M, Bukur M, **Ley EJ**, Chung R, Malinoski D, Margulies D, Salim A. Decreased ICP Monitor Utilization At Level II Trauma Centers Is Associated With Increased Mortality. *Southern California Chapter of the American College of Surgeons: Annual Scientific Meeting*, Santa Barbara, California, January 2012.
65. Singer M, Bukur M, Barmparas G, **Ley EJ**, Margulies, D Malinoski D, Salim A. Does Resident involvement Effect Trauma Outcomes? *83<sup>rd</sup> Annual Meeting of the Pacific Coast Surgical Association*, Napa Valley, CA, 2012.
66. Malinoski D, Raza S, Warren H, Chung R, Bukur M, **Ley EJ**, Margulies D, Salim A. Negative-Screening Methicillin –Resistant Staphylococcus Aureus Nasal Swab on Admission Has a Negative Predictive Value for Subsequent Hospital-Acquired Methicillin-Resistant S Aureus Infection. *83<sup>rd</sup> Annual Meeting of the Pacific Coast Surgical Association*, Napa Valley, CA, 2012.
67. Short SS, Singer MB, Clond MA, Bukur M, Margulies DR, Salim A, **Ley EJ**. Alcohol Use In Pediatric Trauma. *64<sup>th</sup> Annual Meeting of the Southwestern Surgical Congress*, Rancho Palos Verdes, CA. March 2012.
68. Singer MB, Clond MA, Shouhed D, Bukur M, Margulies DR, Salim A, **Ley EJ**. Insurance and Race: Predictors of Mortality In Elderly Trauma Patients? *64<sup>th</sup> Annual Meeting of the Southwestern Surgical Congress*, Rancho Palos Verdes, CA. March 2012.
69. Barnajian M, Singer MB, Clond MA, Bukur M, Margulies DR, Salim A, **Ley EJ**. Reducing Diversion Rate after Colon Trauma. *64<sup>th</sup> Annual Meeting of the Southwestern Surgical Congress*, Rancho Palos Verdes, CA. March 2012.
70. Amini-Hadjibashi A, Bukur M, Mirocha J, Margulies D, **Ley EJ**, Chung R, Malinoski D, Salim A. Insurance Status Affects Utilization Of Laparoscopy For Lower Gastrointestinal Procedures. *64<sup>th</sup> Annual Meeting of the Southwestern Surgical Congress*, Rancho Palos Verdes, CA. March 2012.
71. Amini-Hadjibashi A, M, Mirocha J, Margulies D, **Ley EJ**, Chung R, Malinoski D, Salim A. A Comparison Between Community and Hospital Acquired Clostridium Difficile Colitis In California: *64<sup>th</sup> Annual Meeting of the Southwestern Surgical Congress*, Rancho Palos Verdes, CA. March 2012.
72. Singer MB, Barmparas G, Bukur M, Chung R, **Ley EJ**, Malinoski DJ, Margulies DR, Salim A. Cirrhosis and Blunt Splenic Injury: As Bad As We Think? *64<sup>th</sup> Annual Meeting of the Southwestern Surgical Congress*, Rancho Palos Verdes, CA. March 2012.

73. Bloom M, Jones H, Borenstein J, Mirocha J, Snodgrass K, Cat T, Bukur M, Chung R, **Ley EJ**, Margulies D, Salim A, Malinoski D. The impact of brain dead organ donor demographics and critical care endpoints on liver transplantation and graft survival rates: *71<sup>st</sup> Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery*. Kauai, HI, 2012.
74. Bloom M, Jones H, Borenstein J, Mirocha J, Snodgrass K, Cat T, Bukur M, Margulies D, Salim A, **Ley EJ**. Implementation of code sepsis reduces delay in antibiotic administration in critically ill floor patients: *71<sup>st</sup> Annual Meeting of the American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery*. Kauai, HI, 2012.
75. Yu, John S. MD, Lee, Bong-Seop PhD, Clond Morgan PhD, **Ley EJ MD**. 149 Nanoprodrug Accumulates in Experimental Traumatic Brain Injury. *The Congress of Neurological Surgery*. October 2012.
76. Shouhed D, Catchpole K, **Ley EJ**, Blaha J, Blocker RC, Duff S, Karl C, Karl R, Gewertz BL, Wiegmann D. Flow Disruption During Trauma Care: *American College of Surgeons*. Chicago, IL. September 2012.
77. **Ley EJ**, Catchpole k, Wiegmann D, Shouhed D, Blaha J, Blocker R, Duff S, Starnes B, Karl C, Karl R, Gewertz B, Cedars-Sinai Medical Center Sponsor: Ali Salim, MD. A Human Factors Approach To Flow Disruption In Civilian And Military Trauma Care: *The American Association For The Surgery Of Trauma*. Kauai, HI. September 2012.
78. **Ley EJ**, Catchpole K, Wiegmann D, Shouhed D, Blaha J, Blocker R, Duff S, Starnes B, Karl C, Karl R, Gewertz B, Cedars-Sinai Medical Center Sponsor: Ali Salim, MD. A Human Factors Approach To Flow Disruption In Civilian And Military Trauma Care: *The American Association For The Surgery Of Trauma*. Kauai, HI. September 2012.
79. Blocker RC, Duff S, Wiegmann D, Catchpole K, Blaha J, Shouhed D, **Ley EJ**, Karl C, Karl R, Gewertz B. (2012) Flow Disruptions in Trauma Surgery: Type, Impact, and Affect. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*. October 2012.
80. Liou D, Soukiasian HJ, Warren H, Melo N, Chung R, Bukur M, Margulies DR, Salim A, **Ley EJ**. Midodrine use in the Management of Postoperative High Flow Chylothorax. *Southern California Chapter of the American College of Surgeons: Annual Scientific Meeting*, Santa Barbara. California. January 2013.
81. Gangi A, Liou D, Melo N, Bukur M, Chung R, Margulies D, Salim A, **Ley EJ**. Bicycle Trauma: A teen Year Experience. *Southern California Chapter of the American College of Surgeons: Annual Scientific Meeting*, Santa Barbara, California. January 2013.
82. Salim A, **Ley EJ**, Liou D, Schulman D, Zheng L, Chan L. Increasing Intent to Donate in Hispanic Americans: The Role of Media and Other Community Outreach Efforts. *84th Annual Meeting of the Pacific Coast Surgical Association*. Kauai, HI. February 2013.
83. Liou D, Singer MB, Melo N, Chung R, Bukur M, Margulies DR, Salim A, **Ley EJ**. Emergency Department Blood Transfusion of Greater than Two Units Predicts Increased Mortality. *8th Annual Academic Surgical Congress*. New Orleans, LA. February 2013.
84. Short SS, Liou D, Singer MB, Margulies D, Bukur M, Salim A, **Ley EJ**. Teenage Gender Impacts Mortality after Traumatic Brain Injury. *8th Annual Academic Surgical Congress*. New Orleans, LA. February 2013.

85. Short SS, Liou D, Singer MB, Margulies D, Bukur M, Salim A, **Ley EJ**. Insurance Type, Not Race, Predicts Mortality After Pediatric Trauma. *8th Annual Academic Surgical Congress*. New Orleans, LA. February 2013.
86. Liou D, Barmparas G, Chung R, **Ley EJ**, Margulies DR, Salim A, Bukur M. Work Hour Reduction: Still Room for Improvement. *8th Annual Academic Surgical Congress*. New Orleans, LA. February 2013.
87. Liou D, Singer MB, Melo N, Chung R, Bukur M, Margulies DR, Salim A, **Ley EJ**. Supratherapeutic Vancomycin Levels After Trauma Predicts Acute Kidney Injury and Mortality. *8th Annual Academic Surgical Congress*. New Orleans, LA. February 2013.
88. A. Gangi, K. Catchpole, R. Blocker, D. Wiegmann, B. Gewertz, J. Blaha, **Ley EJ**. Time To Prepare Impacts Emergency Department Efficiency and Flow Disruptions. *Academic Surgical Congress*. New Orleans, LA. February 2013.
89. K.R. Catchpole, R. Blocker, **Ley EJ**, A. Gangi, J. Blaha, B. Gewertz, D. Wiegmann. Flow Disruptions in Trauma Care Handoffs: *Academic Surgical Congress*. New Orleans, LA. February 2013.
90. A. Gangi, R. Chung, N. Melo, M. Bukur, D. Margulies, A. Salim, **Ley EJ**. Bicycle Trauma: Intoxication and Helmet Use. *The Southwestern Surgical Congress Meeting*. Santa Barbara, CA. March 2013.
91. D. Liou, M. Bukur, J. Mirocha, N. Melo, R. Chung, D. Margulies, A. Salim, **Ley EJ**. Optimal Admission Temperature in Moderate To Severe Traumatic Brain Injury. *The Southwestern Surgical Congress Meeting*. Santa Barbara, CA. March 2013.
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96. Barmparas G, Liou D, Lee D, Bloom M, **Ley EJ**, Salim A, Bukur M. Impact of Positive Fluid Balance on Critically Ill Surgical Patients: A Prospective Observational Study. *AAST Meeting*. San Francisco, CA. September 2013.
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100. G. Barmparas, D. Liou, D. Lee, N. Fierro, J. Lu, **Ley EJ**. Clostridium Difficile Colitis Increases The Risk For Venous Thromboembolism. *Academic Surgical Congress*. San Diego, California. February 4, 2014.
101. A.Gangi, J. Blaha, K.E. Law, D. Shouhed, B. Gewertz, **Ley EJ**, DA Wiegmann, E. Salas, K. Catchpole. Standardized Teamwork Training Improves Trauma Workflow. *Academic Surgical Congress*. San Diego, California. February 6, 2014.
102. A. Gangi, **Ley EJ**, D.A. Wiegmann, J. Blaha, D. Shouhed, H. Enos, B. Gewertz, B.W. Starnes, R.M. Rush, K. Catchpole. Comparison of Civilian and Military Trauma Teamwork and Safety Attitudes. *Academic Surgical Congress*. San Diego, California. February 6, 2014.
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105. D.Z. Liou, A. Gangi, D. Chou, G. Barmparas, **Ley EJ**. Omentum versus Bowel Evisceration after Abdominal Stab Wounds: Who Requires an Operation? *Academic Surgical Congress*. San Diego, California. February 6, 2014.
106. G. Barmparas, D. Liou, J. Lu, J. Eng, D. Lee, N. Fierro, **Ley EJ**. Risk of Abdominal Abscess Following Elective and Traumatic Splenectomy. *Academic Surgical Congress*. San Diego, California. February 6, 2014.
107. G. Barmparas, D. Liou, J. Lu, A. Gangi, **Ley EJ**, A. Salim, M. Bukur. Emergency Department Hypertension Predicts Traumatic Brain Injury In Patients With Altered Mental Status. *Academic Surgical Congress*. San Diego, California. February 6, 2014.
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110. McLafferty F, Barmparas G, Roberts P, Ortega A, Nuno M, Paul, **Ley EJ**. Determining Factors That Improve Response to Inpatient Rehabilitation in Patients with Moderate to Severe Traumatic Brain Injury. 73<sup>rd</sup> Annual Meeting of the *American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery*. Philadelphia, PA. September 2014.
111. Lee D, Barmparas G, Fierro N, Liou D, Lamb A, Nguyen B, Chung R, **Ley EJ**. Splenectomy is Associated with a Higher Risk for Venous Thromboembolism. 73<sup>rd</sup> Annual Meeting of *American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery*. Philadelphia, PA. September 2014.

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113. Lamb A, Barmparas G, Nguyen B, Chen K, Lyden P, **Ley EJ**. Neuronal Cell Cytotoxicity Due to Beta Adrenergic Agonism Increases After Oxygen-Glucose Deprivation and Diffuse Axonal Injury. 73rd Annual Meeting of American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery. Philadelphia, PA. September 2014.
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115. Ko A, Barmparas B, Zaw A, Lee D, Fierro N, Tran T, Margulies D, **Ley EJ**. Abdominal Injuries in the "Found Down": Is Imaging Justified? *Western Surgical Association, Annual Meeting*. Indian Wells, CA. November 2014.
116. Manguso N, Barmparas G, Hotz H, Melo N, Chung R, Bloom M, **Ley EJ**, Margulies D. Ejection from a Motor Vehicle: A Good Reason for Trauma Team Activation. *Western Surgical Association, Annual Meeting*. Indian Wells, CA. November 2014.
117. Zaw A, Chen K, Louy C, Bloom M, Melo N, Alban R, Margulies D, **Ley EJ**. Epidural Analgesia After Rib Fractures: 10-Year Analysis. Annual Scientific Meeting of the *Southern California Chapter ACS*. January 16, 2015.
118. Stewart D, Zaw A, Murry J, Hoang D, Sun B, Hotz H, Margulies D, **Ley EJ**. Can CT Chest Replace CT Angiography for Blunt Chest Trauma? Annual Scientific Meeting of the *Southern California Chapter ACS*. January 16, 2015.
119. Alban R, **Ley EJ**, Margulies D. Field Intubation and Outcomes in Patients Requiring Massive Transfusion Protocol. Annual Scientific Meeting of the *Southern California Chapter ACS*. January 16, 2015.
120. Murry J, Zaw A, Hoang D, Liou D, Barmparas G, **Ley EJ**. Selective Non-operative Management in Anterior Abdominal Stab Wounds. Annual Scientific Meeting of the *Southern California Chapter ACS*. January 16, 2015.
121. Murray J, Zaw A, Hoang D, Mehrzadi D, Nuno M, Bloom M, **Ley EJ**. Massive Transfusion is Well Tolerated in Elderly Trauma Patients. Annual Scientific Meeting of the *Southern California Chapter ACS*. January 16, 2015.
122. Bloom M, **Ley EJ**, Liou D, Tran T, Chung R, Melo N, Margulies D. BMI is Inversely Proportional to Need for Therapeutic Operation after Abdominal Stab Wound. *Academic Surgical Congress*. February 3, 2015.
123. Barmparas G, Murry J, Martin M, Wiegmann D, Catchpole K, Gewertz B, **Ley EJ**. Increased Age Predicts Failure to Rescue. *Academic Surgical Congress*. February 4, 2015.
124. Murry J, Hoang D, Barmparas G, Lee D, Bukur M, Bloom M, Inaba K, Margulies D, Salim A, **Ley EJ**. Prospective Evaluation of Bradycardia and Hypotension after Early Propranolol for Traumatic Brain Injury. *Academic Surgical Congress*. February 4, 2015.
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126. Murry J, Hoang D, Barmparas G, Zaw A, Nuno M, Catchpole K, Gewertz B, **Ley EJ**. Heart Rate in Pediatric Trauma: Rethink Your Strategy. *Academic Surgical Congress*. February 4, 2015.
127. Barmparas G, Cooper Z, Havens J, Askari R, Kelly E, Salim A, **Ley EJ**. Transfer to Higher-Level Centers Does Not Improve in Older Patients with Spinal Injuries. *Academic Surgical Congress*. February 4, 2015.
128. Huang DM., Zaw A, Murry J, Mehrzadi D, Lee T, Mason R, Margulies D, **Ley EJ**. Overtreatment of Heparin-Induced Thrombocytopenia in Surgical Intensive Care Units. *Pacific Coast Surgical Association, 86<sup>th</sup> Annual Meeting*.
129. Barmparas G, Martin MJ, Weigmann D, Catchpole KR, Ley EJ, Gewertz B. Failure to Rescue in the Elderly: A Superior Quality Metric for Trauma Centers. *Pacific Coast Surgical Association, 86<sup>th</sup> Annual Meeting*.

### **UCLA Teaching Activities**

- 199 Clinical Research Seminar
- 199 Basic Science Research Seminar

### **CSMC Teaching Activities:**

- Surgical Critical Care, 3 lectures per year
- Surgical Resident Core Curriculum, 1 lecture per year
- Surgical Resident Skill Lab, 2 simulation labs per year
  - Trauma Pig Lab
  - Central Line Placement
- Teaching Rounds, weekly attendance
- Trauma Journal Club, weekly attendance
- Trauma Mortality and Morbidity, weekly attendance
- Matrix Conference, weekly attendance

### **Publications/Bibliographies (Peer-Reviewed):**

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2. Westheimer G, **Ley EJ**. (1997) Spatial and temporal integration of signals in foveal line orientation. *Journal of Neurophysiology*. 1997 May; 77(5), 2677-84. PMID:9163383
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12. Salim A; **Ley EJ**; Cryer HG; Margulies DR; Ramicone E; Tillou A. (2009) Positive Serum Ethanol Level and Mortality in Moderate to Severe Traumatic Brain Injury. *Archives of Surgery*. 2009 Sep; 144(9):865-871. PMID:19797113
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#### **Book Chapters:**

1. **Ley EJ** and Salim A. "Organ Donation" in *Penetrating Trauma: A Practical Guide on Operative Technique and Peri-operative Management.* Velmahos GC, Degiannis E, Doll D (Editors). Springer. 2012

#### **Letters to the Editors:**

1. Salim Ali, **Ley Eric**. No Cheers Yet for Ethanol in Traumatic Brain Injury. *Archives of Surgery*. 2010 Apr;145(4); 403. (Reply)
2. **Ley Eric**, Salim Ali. Shock index: A simple clinical parameter for mortality risk in trauma? *The Journal of Trauma and Acute Care Surgery*. 2012 Sep; 73 (3); 781. (Reply)
3. Singer MB, **Ley EJ**. Re: Insurance- and race-based disparities decrease in elderly trauma patients. *The Journal of Trauma and Acute Care Surgery*. 2013 Aug;75(2):347. (Reply)

#### **Invited Lectures**

1. **Ley EJ**. Angiogenesis. Saint George Society Lecture, USC Keck School of Medicine. March 24, 2008.
2. **Ley EJ**. Beta Blockers in Trauma. Southern California Chapter of the American College of Surgeons. January 24, 2010.
3. **Ley EJ**. Sympathetic Hyperactivity after Trauma: Beta Blockers or Beer? Cedars-Sinai Medical Center Surgical Grand Rounds. April 20, 2011.
4. **Ley EJ**. The Impact of Bicycle Injuries in Western Countries. NTRC Injury Prevention Program Central Commissioned Training Program. Hong Kong November 15, 2012.
5. **Ley EJ**, Triana Z, Buickians A and Amato C. Simulating Future Processes and Technology in Peri-Operative Trauma Care. Healthcare Facilities and Symposium. October 2, 2013.
6. **Ley EJ**. What Can Other High Risk Endeavors Teach Us? American College of Cardiology, 63rd Annual Scientific Session and Expo. March 29, 2014.
7. **Ley EJ**. Human Factors in Trauma Care. Annual Scientific Meeting of the Southern California Chapter ACS. January 16, 2015.