

**CURRICULUM VITAE**  
**David W Mercer, MD**

**CAMPUS ADDRESS:** Department of Surgery  
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**ACADEMIC APPOINTMENTS**

2009 - Present	Chairperson, Surgery, UNMC
2009 - Present	McLaughlin Prof of Surgery, Surgery, UNMC, Omaha, NE
2009 - Present	Professor, Surgery, UNMC
2003 - Present	Vice Chairman/Professor, Surgery, University of Texas Medical School
2007 - 2009	Jack H. Mayfield Chari, Surgery, University of Texas Medical School at Houston, Houston, TX
2006 - 2007	James H. Duke Professorship, UT Houston Medical School
1998 - 2006	Chief, Surgery, LBJ General Hospital
1997 - 2003	Associate Professor, Surgery, University of Texas Medical School
1993 - 1997	Assistant Professor, Surgery, University of Texas Medical School
1989 - 1990	Reichele Research Laboratory Fellow, Surgery, Temple University Hospital
1989 - 1990	Pediatric Heart Institute Critical Care Fellow, St. Christopher's Hospital for Children
1986 - 1993	Intern/Resident, Surgery, Temple University Hospital

**CERTIFICATIONS AND LICENSES**

Present	American Board of Surgery
Present	Advanced Cardiac Life Support
Present	Advanced Trauma and Life Support
Present	National Board of Medical Examiners
1993 - Present	Texas License, Texas, J4919
2013 - Present	Nebraska License, Nebraska, 25326

**GRANTS AND CONTRACT SUPPORT**

**STUDY SECTIONS**

08/01/2009 - 08/01/2009 VA [VA] Merit Review Study Section: Grant Reviewer

**CONSULTING POSITIONS**

**Editorial**

Present Ad Hoc Reviewer, Digestive Diseases and Sciences

## HONORS AND AWARDS

1978 Valedictorian, Washburn High School

## MEMBERSHIPS AND OFFICES IN PROFESSIONAL SOCIETIES

1995 - Present Member, American Physiological Society  
1995 - Present Member, American Gastroenterology Association  
1996 - Present Fellow, American College of Surgeons  
1997 - Present Member, Society of University Surgeons  
1999 - Present Ad Hoc Reviewer, Surgery and Bioengineering NIH Study Section  
1999 - Present Member, NIGMS Postdoctoral Research Training Grant Special Emphasis Panel  
2000 - 2003 Secretary, Society of University Surgeons  
2001 - Present Member, Southern Surgical Association  
2003 - Present Honorary Member, European Society of Surgical Research  
2003 - Present Honorary Member, Surgical Research Society of Southern Africa  
2004 - Present Member, American Surgical Association  
2004 - Present Member, American Association for the Surgery of Trauma  
2004 - 2004 President, Society of University Surgeons  
2005 - Present Member, Society of Clinical Surgeons

## PRESENTATIONS

1. Jawa RS; Young D; Wagner M; Yetter D; Shostrom V; Cemaj S; Nelson LE; Ramey R; Sorenson M; Schwedhelm M; Mercer DW. Two Hospitals with One Trauma System: A Joint Approach to the Care of the Injured Patient. ESICM Conference; 2010 Oct. Barcelona, Spain
2. Jawa RS; Young, D; Wagner, M; Yetter, D; Shostrom, V; Cemaj S; Nelson L; Ramey, R; Sorensen, M; Mercer DW; Stothert JC. Two Hospitals with One Trama System: A Joint Approach to the Care of the Injured Patient. ESICM Conference; 2010. Barcelona, Spain
3. Carson J; Smith L; Are M; Edney JA; Azarow K; Mercer DW; Thompson JS. National trends in minimally invasive and open operative experience of graduating general surgery residents. Southwestern Surgical Congress; 2011 Apr. Oahu, Hawaii
4. Jawa RS; Yetter D; Young DH; Shostrom VK; Cemaj S; Stothert JC; Mercer DW. Alcohol Withdrawal at an Urban Joint Trauma Center System. 64th Annual Meeting of the Southwestern Surgical Congress; 2012. Rancho Palos Verdes, California
5. Sobral F; Smith L; Thompson JS; Mercer DW; Are C. Current status of international rotations in general surgery residency programs in the United States. ACS; 2012 Oct. Chicago, IL
6. Jawa RS; Young DH; Cemaj S; Shostrom VK; Yetter D; Wagner M; Dumond R; Stothert JC; Mercer DW. Pulmonary Contusions After Blunt Trauma Infrequently Occur in Isolation and Are not Benign: The 15 Year Experience at an Urban Joint Trauma Center System. 65th Annual Southwestern Surgical Congress Conference; 2013. Santa Barbara, California

7. Carson JS; Smith LM; Langenfeld, S; Duncan KF; Schenarts PJ; Thompson JS; Mercer DW; Jarman B; Are C. Influence of a new patient safety/quality metric and cost containment curriculum: A controlled pre- and post-intervention trial. ACS Clinical Congress; 2014 Oct. San Francisco, CA

## **PUBLICATIONS**

### **A. ARTICLES PUBLISHED IN SCHOLARLY JOURNALS**

1. Dempsey DT, Mercer DW, Deb B, Sauter A, Ritchie WP. Adaptive cytoprotection of gastric surface epithelial cells against injury by physiologic concentrations of bile acid. *Surgery*. 108 : 348-355. 1990
2. D.W. Mercer; R.E. Milner; M.J. Kirshner; W.P. Ritchie Jr.; D.T. Dempsey. Topical leukotriene (LTC<sub>4</sub>) exacerbates bile acid injury to the superficial gastric mucosa in rats. *Surgical Forum*. 41 : 138-139. 1990
3. Mercer DW, Milner R, O'Neill S, Ritchie WP, Dempsey DT. Leukotriene receptor blockade reduces bile acid-induced superficial gastric mucosal injury. *Journal of Surgical Research*. 50 : 602-608. 1991
4. Ritchie WP, Mercer D. Mediators of bile acid-induced alterations in gastric mucosal blood flow. *The American Journal of Surgery*. 161 : 126-130. 1991
5. Mercer DW, Buckman RF, Sood R, Kerr TM, Gelman J. Anatomic Considerations in Penetrating Gluteal Wounds. *Archives of Surgery*. 127 : 407-410. 1992
6. Mercer DW, Ritchie WP, Dempsey DT. Do sensory neurons mediate adaptive cytoprotection of gastric mucosa against bile acid injury?. *The American Journal of Surgery*. 163 : 12-18. 1992
7. Mercer DW, Ritchie WP, Dempsey DT. Do leukotrienes mediate bile acid-induced gastric mucosal injury?. *American Surgeon*. 58 : 567-572. 1992
8. Sullivan TR, Cordero JA, Mercer DW, Ritchie WP, Dempsey DT. Selective lipoxygenase inhibitor reduces bile acid-induced gastric mucosal injury. *Journal of Surgical Research*. 53 : 568-571. 1992
9. Mercer DW, Podolsky RS, Ritchie WP, Dempsey DT. Effects of topical isoproterenol on bile acid-induced gastric mucosal injury. *American Surgeon*. 59 : 479-483. 1993
10. Merchant NB, Dempsey DT, Grabowski MW, Rizzo M, Ritchie WP. Capsaicin-induced gastric mucosal hyperemia and protection: The role of calcitonin gene-related peptide. *Surgery*. 116 : 419-425. 1994
11. Hodin RA, Meng S, Shei A. Bombesin maintains enterocyte phenotype in fasted rats. *Surgery*. 116 : 426-431. 1994
12. Mercer DW, Ritchie WP, Dempsey DT. Sensory neuron-mediated gastric mucosal protection is blocked by cyclooxygenase inhibition. *Surgery*. 115 : 156-163. 1994
13. Mercer DW, Kirshner MS, Ritchie WP, Dempsey DT. Topical Prostaglandin E<sub>2</sub> and Isoproterenol Reduce Bile Acid-Induced Gastric Mucosal Injury in Shocked Rats. *Journal of Surgical Research*. 56 : 184-191. 1994
14. Mercer DW, Merchant NB, Ritchie WP, Dempsey DT. Isoproterenol-induced gastric mucosal protection from bile acid - Role of endogenous prostaglandins. *Digestive Diseases and Sciences*. 40 : 2227-2235. 1995

15. Mercer DW, Cross JM, Barreto JC, Strobel NH, Russell DH, Miller TA. Cholecystokinin is a potent protective agent against alcohol-induced gastric injury in the rat - Role of endogenous prostaglandins. *Digestive Diseases and Sciences*. 40 : 651-660. 1995
16. Pressley TA, Higham SC, Joson LA, Mercer DW. Stimulation of Na<sup>+</sup>-K<sup>+</sup>-ATPase by thyrotropin in cultured thyroid follicular cells. *American Journal of Physiology - Cell Physiology*. 268 : C1252-C1258. 1995
17. Cross JM, Smith GS, Russell DH, Nguyen PH, Mercer DW, Barreto JC, Miller TA. Protective effect of a 21-aminosteroid against hemorrhage-induced ischemia-reperfusion injury in the rat stomach: role of lipid peroxidation. *Shock (Augusta, Ga.)*. 3 : 385-390. 1995
18. Smith GS, Mercer DW, Cross JM, Barreto JC, Miller TA. Gastric injury induced by ethanol and Ischemia-Reperfusion in the rat: Differing roles for lipid peroxidation and oxygen radicals. *Digestive Diseases and Sciences*. 41 : 1157-1164. 1996
19. Mercer DW, Ritchie WP, Dempsey DT. Effects of polyunsaturated fatty acids on bile acid-induced gastric mucosal injury. *Journal of Surgical Research*. 61 : 44-50. 1996
20. Mercer DW, Smith GS, Cross JM, Russell DH, Chang L, Cacioppo J. Effects of lipopolysaccharide on intestinal injury: Potential role of nitric oxide and lipid peroxidation. *Journal of Surgical Research*. 63 : 185-192. 1996
21. Mercer DW, Klemm K, Cross JM, Smith GS, Cashman M, Miller TA. Cholecystokinin-induced protection against gastric injury is independent of endogenous somatostatin. *American Journal of Physiology - Gastrointestinal and Liver Physiology*. 271 : G692-G700. 1996
22. Mercer DW, Cross JM, Smith GS, Miller TA. Protective action of gastrin-17 against alcohol-induced gastric injury in the rat: Role in mucosal defense. *American Journal of Physiology - Gastrointestinal and Liver Physiology*. 273 : G365-G373. 1997
23. D.W. Mercer; L. Chang; L.M. Lichtenberger. Octreotide acetate attenuates bombesin induced gastroprotection. *FASEB Journal*. 11 : A219. 1997
24. Cross JM, Mercer DW, Gunter J, Miller TA. Effects of Dopamine and Alpha-2 Adrenoreceptor Blockade on L-Dopa and Cholecystokinin-Induced Gastroprotection. *Journal of Gastrointestinal Surgery*. 1 : 257-265. 1997
25. Buckman RF, Badellino MM, Eynon CA, Mauro LH, Aldridge SC, Milner RE, Merchant NB, Buckman RF, Mercer D, Malaspina PJ, Warren R. Open-chest cardiac massage without major thoracotomy: Metabolic indicators of coronary and cerebral perfusion. *Resuscitation*. 34 : 247-253. 1997
26. Klemm K, Mercer DW, Mailman D, Moody FG. Hypotension during Septic Shock Does Not Correlate with Plasma Levels of Nitric Oxide Metabolites in the Conscious Rat. *Journal of Gastrointestinal Surgery*. 1 : 347-356. 1997
27. Mercer DW, Cross JM, Castaneda AA, Gunter JA. Gastroprotective actions of bombesin L-DOPA, and mild irritants: Roles of prostaglandins and sensory neurons. *Surgery*. 124 : 864-870. 1998
28. Litvak DA, Evers BM, Hwang KO, Hellmich MR, Ko TC, Townsend CM. Butyrate-induced differentiation of Caco-2 cells is associated with apoptosis and early induction of p21(Waf1/Cip1) and p27(Kip1). *Surgery*. 124 : 161-170. 1998
29. Kokoska ER, Smith GS, Miller TA. Store-operated calcium influx in human gastric cells: Role of endogenous prostaglandins. *Surgery*. 124 : 429-437. 1998
30. Mercer DW, Cross JM, Chang L, Lichtenberger LM. Bombesin prevents gastric injury in

- the rat: Role of gastrin. *Digestive Diseases and Sciences*. 43 : 826-833. 1998
31. Mercer DW, Smith GS, Miller TA. Cyclooxygenase inhibition attenuates cholecystokinin-induced gastroprotection. *Digestive Diseases and Sciences*. 43 : 468-475. 1998
  32. Cross JM, Chang L, Mercer DW. Effects of Cholecystokinin on Gastric Injury and Gastric Mucosal Blood Flow. *Journal of Gastrointestinal Surgery*. 2 : 198-206. 1998
  33. Mercer DW, Castaneda AA, Denning JW, Chang L, Russell DH. Effects of endotoxin on gastric injury from luminal irritants in rats: Potential roles of nitric oxide. *American Journal of Physiology - Gastrointestinal and Liver Physiology*. 275 : G449-G459. 1998
  34. Cullen JJ, Mercer D, Hinkhouse M, Ephgrave KS, Conklin JL. Effects of endotoxin on regulation of intestinal smooth muscle nitric oxide synthase and intestinal transit. *Surgery*. 125 : 339-344. 1999
  35. Castañeda AA, Denning JW, Chang L, Mercer DW. Does upregulation of inducible nitric oxide synthase (iNOS) render the stomach more susceptible to damage?. *Journal of Surgical Research*. 84 : 174-179. 1999
  36. Liu TH, Consorti ET, Kawashima A, Ernst RD, Black CT, Greger PH, Fischer RP, Mercer DW. The efficacy of magnetic resonance cholangiography for the evaluation of patients with suspected choledocholithiasis before laparoscopic cholecystectomy. *American Journal of Surgery*. 178 : 480-484. 1999
  37. Castañeda AA, Kim YS, Chang LK, Cui Y, Mercer DW. Nitric oxide synthase inhibition negates bombesin-induced gastroprotection. *Surgery*. 128 : 422-428. 2000
  38. Castañeda A, Vilela R, Chang L, Mercer DW. Effects of intestinal ischemia/reperfusion injury on gastric acid secretion. *Journal of Surgical Research*. 90 : 88-93. 2000
  39. Liu TH, Consorti ET, Kawashima A, Tamm EP, Kwong KL, Gill BS, Sellin JH, Peden EK, Mercer DW. Patient evaluation and management with selective use of magnetic resonance cholangiography and endoscopic retrograde cholangiopancreatography before laparoscopic cholecystectomy. *Annals of Surgery*. 234 : 33-40. 2001
  40. Kim YS, Chang LK, Mercer DW. Lipopolysaccharide-induced gastroprotection is independent of the vagus nerve. *Digestive Diseases and Sciences*. 46 : 1526-1532. 2001
  41. Liu TH, Mehall JR, Mercer DW. Image of the month. *Archives of Surgery*. 136 : 1437-1438. 2001
  42. Hassoun HT, Kone BC, Mercer DW, Moody FG, Weisbrodt NW, Moore FA. Post-injury multiple organ failure: The role of the gut. *Shock*. 15 : 1-10. 2001
  43. Hassoun HT, Weisbrodt NW, Mercer DW, Kozar RA, Moody FG, Moore FA. Inducible nitric oxide synthase mediates gut ischemia/reperfusion-induced ileus only after severe insults. *Journal of Surgical Research*. 97 : 150-154. 2001
  44. Helmer KS, Chang L, Cui Y, Mercer DW. Induction of NF- $\kappa$ B, I $\kappa$ B- $\beta$ , and iNOS in rat gastric mucosa during endotoxemia. *Journal of Surgical Research*. 104 : 46-52. 2002
  45. Helmer KS, Robinson EK, Lally KP, Vasquez JC, Kwong KL, Liu TH, Mercer DW. Standardized patient care guidelines reduce infectious morbidity in appendectomy patients. *American Journal of Surgery*. 183 : 608-613. 2002
  46. Liu TH, Consorti ET, Mercer DW. Laparoscopic cholecystectomy for acute cholecystitis: Technical considerations and outcome. *Seminars in Laparoscopic Surgery*. 9 : 24-31. 2002

47. Helmer KS, West SD, Shipley GL, Chang L, Cui Y, Mailman D, Mercer DW. Gastric nitric oxide synthase expression during endotoxemia: Implications in mucosal defense in rats. *Gastroenterology*. 123 : 173-186. 2002
48. Dial EJ, Romero JJ, Villa X, Mercer DW, Lichtenberger LM. Lipopolysaccharide-induced gastrointestinal injury in rats: Role of surface hydrophobicity and bile salts. *Shock*. 17 : 77-80. 2002
49. Trachte AL, Suthers SE, Lerner MR, Hanas JS, Jupe ER, Sienko AE, Adesina AM, Lightfoot SA, Brackett DJ, Postier RG. Increased expression of alpha-1-antitrypsin, glutathione S-transferase  $\tilde{A}\bullet$  and vascular endothelial growth factor in human pancreatic adenocarcinoma. *American Journal of Surgery*. 184 : 642-648. 2002
50. Liu TH, Robinson EK, Helmer KS, West SD, Castaneda AA, Chang L, Mercer DW. Does upregulation of inducible nitric oxide synthase play a role in hepatic injury?. *Shock*. 18 : 549-554. 2002
51. West SD, Helmer KS, Chang LK, Cui Y, Greeley GH, Mercer DW. Cholecystokinin secretagogue-induced gastroprotection: Role of nitric oxide and blood flow. *American Journal of Physiology - Gastrointestinal and Liver Physiology*. 284 : G399-G410. 2003
52. Liu TH, Kwong KL, Tamm EP, Gill BS, Brown SD, Mercer DW. Acute pancreatitis in intensive care unit patients: Value of clinical and radiologic prognosticators at predicting clinical course and outcome. *Critical Care Medicine*. 31 : 1026-1030. 2003
53. David W. Mercer; Terrence H. Liu. Open truncal vagotomy. *Operative Techniques in General Surgery*. 5 : 80-85. 2003
54. Helmer KS, Cui Y, Dewan A, Mercer DW. Ketamine/Xylazine attenuates LPS-induced iNOS expression in various rat tissues. *Journal of Surgical Research*. 112 : 70-78. 2003
55. Helmer KS, Cui Y, Chang L, Dewan A, Mercer DW. Effects of ketamine/xylazine on expression of tumor necrosis factor-alpha, inducible nitric oxide synthase, and cyclo-oxygenase-2 in rat gastric mucosa during endotoxemia. *Shock (Augusta, Ga.)*. 20 : 63-69. 2003
56. West SD, Robinson EK, Delu AN, Ligon RE, Kao LS, Mercer DW. Diverticulitis in the younger patient. *American Journal of Surgery*. 186 : 743-746. 2003
57. David W. Mercer; Emily K. Robinson. Gastric Ulcer. *Surgical Decision Making: Fifth Edition*. 138-141. 2004
58. West SD, Mercer DW. Cholecystokinin-induced gastroprotection: A review of current protective mechanisms. *Digestive Diseases and Sciences*. 49 : 361-369. 2004
59. Helmer KS, West SD, Vilela R, Chang L, Cui Y, Kone BC, Mercer DW. Lipopolysaccharide-Induced Changes in Rat Gastric H/K-ATPase Expression. *Annals of Surgery*. 239 : 501-509. 2004
60. Farrow B, Sugiyama Y, Chen A, Uffort E, Nealon W, Mark Evers B. Inflammatory mechanisms contributing to pancreatic cancer development. *Annals of Surgery*. 239 : 763-771. 2004
61. West SD, Mercer DW. Bombesin-induced gastroprotection. *Annals of Surgery*. 241 : 227-231. 2005
62. Suliburk JW, Gonzalez EA, Kennison SD, Helmer KS, Mercer DW. Differential effects of anesthetics on endotoxin-induced liver injury. *Journal of Trauma - Injury, Infection and Critical Care*. 58 : 711-717. 2005
63. Suliburk JW, Gonzalez EA, Moore-Olufemi SD, Weisbrodt N, Moore FA, Mercer DW. Ketamine inhibits lipopolysaccharide (LPS) induced gastric luminal fluid accumulation.

- Journal of Surgical Research. 127 : 203-207. 2005
64. Mercer DW. Presidential address: Academic surgery: Can we adapt?. Surgery. 138 : 115-124. 2005
  65. Suliburk JW, Helmer KS, Gonzalez EA, Robinson EK, Mercer DW. Ketamine attenuates liver injury attributed to endotoxemia: Role of cyclooxygenase-2. Surgery. 138 : 134-140. 2005
  66. Robinson EK, Kennison SD, Suliburk JW, Mercer DW. Rat gastric injury after lipopolysaccharide: Role of inducible nitric oxide synthase. Surgery. 138 : 523-529. 2005
  67. Gonzalez EA, Kozar RA, Suliburk JW, Weisbrodt NW, Mercer DW, Moore FA. Hypertonic saline resuscitation after mesenteric ischemia/reperfusion induces ileal apoptosis. Journal of Trauma - Injury, Infection and Critical Care. 59 : 1092-1098. 2005
  68. Suliburk JW, Helmer KS, Kennison SD, Mercer DW, Robinson EK. Time-dependent aggravation or attenuation of lipopolysaccharide-induced gastric injury by nitric oxide synthase inhibition. Journal of Surgical Research. 129 : 265-271. 2005
  69. Kao LS, Knight MT, Lally KP, Mercer DW. The impact of diabetes in patients with necrotizing soft tissue infections. Surgical Infections. 6 : 427-438. 2005
  70. Robinson EK, West SD, Garay A, Mercer DW. Rat gastric gelatinase induction during endotoxemia. Digestive Diseases and Sciences. 51 : 548-559. 2006
  71. West SD, Suliburk JW, Smith GS, Mercer DW. Effects of lipopolysaccharide on gastric stasis: Role of cyclooxygenase. Digestive Diseases and Sciences. 51 : 754-765. 2006
  72. Robinson EK, Seaworth CM, Suliburk JW, Adams SD, Kao LS, Mercer DW. Effect of NOS inhibition on rat gastric matrix metalloproteinase production during endotoxemia. Shock. 25 : 507-514. 2006
  73. Robinson EK, West SD, Mercer DW. Salicylate Enhances Rat Gastric Gelatinase Activity. Journal of Surgical Research. 133 : 69-75. 2006
  74. Gonzalez EA, Kozar RA, Suliburk JW, Weisbrodt NW, Mercer DW, Moore FA. Conventional dose hypertonic saline provides optimal gut protection and limits remote organ injury after gut ischemia reperfusion. Journal of Trauma - Injury, Infection and Critical Care. 61 : 66-73. 2006
  75. Helmer KS, Suliburk JW, Mercer DW. Ketamine-induced gastroprotection during endotoxemia: Role of heme-oxygenase-1. Digestive Diseases and Sciences. 51 : 1571-1581. 2006
  76. Lau WK, Mercer D, Itani KM, Nicolau DP, Kuti JL, Mansfield D, Dana A. Randomized, open-label, comparative study of piperacillin-tazobactam administered by continuous infusion versus intermittent infusion for treatment of hospitalized patients with complicated intra-abdominal infection. Antimicrobial Agents and Chemotherapy. 50 : 3556-3561. 2006
  77. Suliburk JW, Mercer DW. Ketamine attenuates early lipopolysaccharide-induced gastric dysfunction: Role of stress-inducible phosphoproteins. Journal of Trauma - Injury, Infection and Critical Care. 62 : 316-319. 2007
  78. Adams SD, Mercer DW. Fulminant Clostridium difficile colitis. Current Opinion in Critical Care. 13 : 450-455. 2007
  79. Dial E, Lopez-Storey M, Adams S, Lichtenberger L, Gonzalez E, McKinley B, Moore F, Mercer D. A report on associations among gastric pH, bleeding, duodenogastric reflux, and outcomes after trauma. Journal of Trauma - Injury, Infection and Critical Care. 64 : 105-110. 2008

80. West SD, Suliburk JW, Helmer KS, Mercer DW. Cyclooxygenase-1 suppresses lipopolysaccharide-induced changes in rat gastric inducible nitric oxide synthase. *Critical Care Medicine*. 36 : 572-579. 2008
81. Suliburk J, Helmer K, Moore F, Mercer D. The gut in systemic inflammatory response syndrome and sepsis: Enzyme systems fighting multiple organ failure. *European Surgical Research*. 40 : 184-189. 2008
82. Cocanour CS, Dial ED, Lichtenberger LM, Gonzalez EA, Kozar RA, Moore FA, Mercer DW. Gastric alkalization after major trauma. *Journal of Trauma - Injury, Infection and Critical Care*. 64 : 681-687. 2008
83. Suliburk JW, Kao LS, Kozar RA, Mercer DW. Training future surgical scientists: Realities and recommendations. *Annals of Surgery*. 247 : 741-749. 2008
84. Robinson EK, Kelly DP, Mercer DW, Kozar RA. Differential effects of luminal arginine and glutamine on metalloproteinase production in the postischemic gut. *Journal of Parenteral and Enteral Nutrition*. 32 : 433-438. 2008
85. Adams SD, Radhakrishnan RS, Helmer KS, Mercer DW. Effects of anesthesia on lipopolysaccharide-induced changes in serum cytokines. *The Journal of trauma*. 65 : 170-174. 2008
86. Sasha D. Adams; Ravi S. Radhakrishnan; Kenneth S. Helmer; David W. Mercer. Effects of anesthesia on lipopolysaccharide-induced changes in serum cytokines. *Journal of Trauma - Injury, Infection and Critical Care*. 65 : 170-174. 2008
87. Harting MT, Jimenez F, Kozar RA, Moore FA, Mercer DW, Hunter RL, Cox CS, Gonzalez EA. Effects of poloxamer 188 on human PMN cells. *Surgery*. 144 : 198-203. 2008
88. Harting MT, Jimenez F, Adams SD, Mercer DW, Cox CS. Acute, regional inflammatory response after traumatic brain injury: Implications for cellular therapy. *Surgery*. 144 : 803-813. 2008
89. Todd SR, Kao LS, Catania A, Mercer DW, Adams SD, Moore FA. Alpha-melanocyte stimulating hormone in critically injured trauma patients. *The Journal of trauma*. 66 : 465-469. 2009
90. S. Rob Todd; Lillian S. Kao; Anna Catania; David W. Mercer; Sasha D. Adams; Frederick A. Moore.  $\alpha$ -Melanocyte stimulating hormone in critically injured trauma patients. *Journal of Trauma - Injury, Infection and Critical Care*. 66 : 465-469. 2009
91. Adams SD, Delano BA, Helmer KS, Mercer DW. Fasting exacerbates and feeding diminishes LPS-induced liver injury in the rat. *Digestive Diseases and Sciences*. 54 : 767-773. 2009
92. Suliburk JW, Ward JL, Helmer KS, Adams SD, Zuckerbraun BS, Mercer DW. Ketamine-induced hepatoprotection: The role of heme oxygenase-1. *American Journal of Physiology - Gastrointestinal and Liver Physiology*. 296 : G1360-G1369. 2009
93. Jastrow KM, Gonzalez EA, McGuire MF, Suliburk JW, Kozar RA, Iyengar S, Motschall DA, McKinley BA, Moore FA, Mercer DW. Early Cytokine Production Risk Stratifies Trauma Patients for Multiple Organ Failure. *Journal of the American College of Surgeons*. 209 : 320-331. 2009
94. Ward JL, Adams SD, Delano BA, Clarke C, Radhakrishnan RS, Weisbrodt NW, Mercer DW. Ketamine suppresses LPS-induced bile reflux and gastric bleeding in the rat. *The Journal of trauma*. 68 : 69-75. 2010
95. Jeremy L. Ward; Sasha D. Adams; Benjamin A. Delano; Caroline Clarke; Ravi S.



- Radhakrishnan; Norman W. Weisbrodt; David W. Mercer. Ketamine suppresses LPS-induced bile reflux and gastric bleeding in the rat. *Journal of Trauma - Injury, Infection and Critical Care*. 68 : 69-75. 2010
96. Ward JL, Delano BA, Adams SD, Mercer EE, Mercer DW. Laparotomy attenuates lipopolysaccharide-induced gastric bleeding in the rat. *Digestive Diseases and Sciences*. 55 : 902-910. 2010
97. Ward JL, Harting MT, Cox CS, Mercer DW. Effects of ketamine on endotoxin and traumatic brain injury induced cytokine production in the rat. *Journal of Trauma - Injury, Infection and Critical Care*. 70 : 1471-1479. 2011
98. McGuire MF, Iyengar MS, Mercer DW. Computational approaches for translational clinical research in disease progression. *Journal of Investigative Medicine*. 59 : 893-903. 2011
99. Carson JS, Smith L, Are M, Edney J, Azarow K, Mercer DW, Thompson JS, Are C. National trends in minimally invasive and open operative experience of graduating general surgery residents: implications for surgical skills curricula development?. *Am. J. Surg*. 202 : 720-6; discussion 726. 2011
100. McGuire MF, Sriram Iyengar M, Mercer DW. Data driven linear algebraic methods for analysis of molecular pathways: Application to disease progression in shock/trauma. *Journal of Biomedical Informatics*. 45 : 372-387. 2012
101. Jawa RS, Young DH, Wagner M, Yetter D, Shostrom V, Cemaj S, Nelson L, Ramey R, Sorensen M, Schwedhelm M, Mercer DW, Stothert J. Two hospitals with 1 trauma system: A joint approach to the care of the injured patient. *American Journal of Surgery*. 203 : 454-460. 2012
102. Jawa RS, Heir JS, Cancelada D, Young DH, Mercer DW. A quick primer for setting up and maintaining surgical intensive care in an austere environment: practical tips from volunteers in a mass disaster. *American journal of disaster medicine*. 7 : 223-229. 2012
103. Jawa RS, Mercer DW. Clostridium difficile-associated infection: A disease of varying severity. *American Journal of Surgery*. 204 : 836-842. 2012
104. Carson J; Johnson E; Schenarts P; Langenfeld, S; Azarow K; Mercer DW; Thompson JS; Are C. The influence of dedicated research time during general surgery residency on ABSITE and Board exam performance. *J Am Coll Surg*. 2013; Vol. 217 (3): p. S117
105. Carson J; Johnson E; Smith K; Schenarts P; Langenfeld, S; Azarow K; Mercer DW; Thompson JS; Are C. National trends in endoscopy experience for graduating general surgery chief residents. *J Am Coll Surg*. 2013; Vol. 217 (3): p. S117
106. Randeep S. Jawa; Erin Quist; Craig W. Boyer; Valerie K. Shostrom; David W. Mercer. Mesenteric ischemia-reperfusion injury up-regulates certain CC, CXC, and XC chemokines and results in multi-organ injury in a time-dependent manner. *European Cytokine Network*. 24 : 148-156. 2013
107. Randeep S. Jawa; David W. Mercer. Gastric outlet obstruction. *Common Problems in Acute Care Surgery*. 227-248. 2013
108. Randeep S. Jawa; David H. Young; Joseph C. Stothert; Diane Yetter; Robbie Dumond; Valerie K. Shostrom; Samuel Cemaj; Risto H. Rautiainen; David W. Mercer. Farm Machinery Injuries: The 15-Year Experience at an Urban Joint Trauma Center System in a Rural State. *Journal of Agromedicine*. 18 : 98-106. 2013
109. Ellis SJ, Newland MC, Simonson JA, Peters KR, Romberger DJ, Mercer DW, Tinker JH, Harter RL, Kindscher JD, Qiu F, Lisco SJ. Anesthesia-related cardiac arrest.

- Anesthesiology. 120 : 829-838. 2014
110. Ellis SJ; Newland MC; Simonson JA; Peters KR; Romberger DJ; Mercer DW; Tinker JH; Harter RH; Kindscher JD; Fang Qiu; Lisco SJ. Anesthesia-related Cardiac Arrest. Anesthesiology (English). 2014 Apr; Lippincott Williams and Wilkins. Vol. 120 (4): p. 829-838. 0003-3022. USA

#### **B. ARTICLES ACCEPTED FOR PUBLICATION IN SCHOLARLY JOURNALS**

Not Applicable

#### **C. ARTICLES SUBMITTED FOR PUBLICATION IN SCHOLARLY JOURNALS**

1. Wheeler MJ; Bowen JM; Harms RZ; Hardie VC; George NM; Lazenby AJ; Mercer DW; Sarvetnick NE. Interleukin 18 and Interleukin 18 Receptor Differentially Impact the Physiological and Cellular Response to Intestinal Inflammation. 2015

#### **D. BOOKS PUBLISHED, IN PREPARATION, SUBMITTED OR IN PRESS**

Not Applicable

#### **E. CHAPTERS IN BOOKS**

1. White JV; Mercer DW. SPIE Proceedings. 1643. SPIE; 1992. Model for evaluation of infectability of laser fused anastomosis; 261-266
2. Goede MR; Mercer DW. Up To Date. Waltham, MA: Up To Date; 2010. Surgical Management Of Stress Gastritis And Ulcerations
3. Mercer DW; Goede MR. Fischer's Mastery of Surgery. 6. 1. Philadelphia, PA: Wolters Kluwer; 2011. Chapter 94, Postgastrectomy and Postvagotomy Syndromes; 1080-1089
4. David W. Mercer; Matthew R. Goede. Postgastrectomy and postvagotomy syndromes. Wolters Kluwer Health Adis (ESP); 2012. Fischer's Mastery of Surgery: Sixth Edition

#### **F. BOOKS OR JOURNALS EDITED**

Not Applicable

#### **G. ABSTRACTS AND PRELIMINARY COMMUNICATIONS**

1. Infantino B; Mercer D; Hobson B; Fischer R; Gerhardt B; Grant W; Langnas A; Quiros-Tejeira RE. Successes with the Treatment of Pediatric Ultrashort Bowel Syndrome. NASPGHAN Annual Meeting; Accepted - Journ. 2011 Oct
2. Fischer R; Snellar H; Quiros-Tejeira RE; Simonsen K; Raynor S; Mercer D. Ethanol Lock Therapy Reduces Central Venous Catheter-Associated Infections in Children with Intestinal Failure. NASPGHAN Annual Meeting; Orlando, FL. J Pediatr Gastro. 2011 Oct , Vol. 53 Suppl 1: E24
3. Fischer R; Fisher M; Hobson B; Quiros-Tejeira RE; Raynor S; Mercer D. Vitamin D Insufficiency Common in Pediatric Patients with Intestinal Failure, Regardless of

- Intestinal Anatomy. NASPGHAN Annual Meeting; Orlando, FL. J Pediatr Gastro. 2011 Oct , Vol. 53 Suppl 1: E25
4. Fischer R; Shelby S; Singh S; Raynor S; Mercer D; Quiros-Tejeira RE. Etiology of Short Bowel Syndrome May Predict Risk of Small Intestinal Bacterial Overgrowth in Children. NASPGHAN Annual Meeting; Orlando, FL. J Pediatr Gastro. 2011 Oct , Vol. 53 Suppl 1: E93
  5. Are C; Stoddard H; O'&#39;Holleran B; Azarow K; Thompson J; Mercer DW. Trends in the composition and match rates of first year categorical general surgery residency positions in the United States. ACS; Chicago, IL. 2012
  6. Sobral F; Smith L; Thompson J; Mercer DW; Are C. Current status of international rotations in general surgery residency programs in the United States. ACS; Chicago, IL. 2012
  7. Lirio R; Trauernicht A; Chaplin R; Mercer D; Grant G; Quiros-Tejeira RE. Utility of Procalcitonin in Determining Infection in Pediatric Liver-Small Bowel Transplant and Intestinal Rehabilitation Patients. NASPGHAN Annual Meeting; Boston, MA. J Pediatr Gastro. 2012 Oct , Vol. 55 Suppl 1: E25
  8. Lirio R; Fischer R; Zapata F; Dumitru I; Fletcher S; Antonson D; Hammel J; Mercer D; Grant W; Langnas A; Quiros-Tejeira RE. Combined Heart-Liver Transplant for Failing Fontan and Cardiac Cirrhosis. NASPGHAN Annual Meeting; Boston, MA. Clinical Vignett. 2012 Oct , Vol. E-Pub
  9. Ellis SJ; Newland M; Simonson JA; Peters KR; Romberger D; Mercer DW; Tinker J; Harter R; Kindscher J; Lisco S. Anesthesia-related cardiac arrests at an academic medical center - Submitted. American Society of Anesthesiologists Annual Meeting; San Francisco, California. 2013
  10. Osna NA; Kharbanda KK; Poluektova LY; Casey CA; McVicker BL; Mercer D. Humanized mouse model for studies of HCV and ethanol. 14th Congress of the European Society for Biomedical Research on Alcoholism (ESBRA); Warsaw, Poland. 2013 Sep

#### **H. PUBLISHED AUDIOVISUAL OR COMPUTER-BASED EDUCATIONAL MATERIALS AND COMPUTER SOFTWARE**

Not Applicable

#### **I. PUBLISHED CONTINUING EDUCATION MATERIALS**

Not Applicable

#### **J. EDITORIALS**

Not Applicable

#### **K. CONFERENCE PROCEEDING**

Not Applicable

#### **EDUCATION / TEACHING ACTIVITY**

**A. ADDITIONAL INSTRUCTION**

**Sponsorship of Postdoctoral Fellows**

James M. Cross, MD (with Dr. Thomas A. Miller) 1994 - 1995