

Curriculum Vitae

Thomas Michael Schmelzer, MBA, MD

Office Address

Pediatric Surgical Associates, P.A.
1900 Randolph Road, Suite 210
Charlotte, North Carolina 28207
Telephone: 704-370-0223
Fax: 704-370-0799

Place of Birth

Dallas, Texas

Marital Status

Married
Anna Taylor Schmelzer, MD

Training

July 2010 – June 2012 Emory University Pediatric Surgery Fellowship
July 2004 – June 2010 Carolinas Medical Center General Surgical Residency
Program

Education

1999 – 2004 University of Louisville School of Medicine
MD
1999 – 2001 University of Louisville School of Business
MBA
1995 – 1999 University of North Carolina Chapel Hill
BA Psychology, minor in Chemistry

Certifications

2013 Board Certified Pediatric Surgery
2011 Board Certification General Surgery
2010 General Surgery Written exam successful completion

Honors and Awards

2010 National Committee on Trauma 2nd place Resident Research
2009 Southeast Regional Committee on Trauma 1st Place Resident
Research

2009	North Carolina Committee on Trauma 1 st Place Resident Research
2007	North Carolina Committee on Trauma 1 st Place Basic Science Research
2006	Carolinas Medical Center Department of Surgery Basic Science Award
1998 – 1999	UNC Men's Varsity Swim Team Captain
1996, 1999	UNC Men's Varsity Swimming: Most Dedicated Athlete Award
1996 – 1999	First team All-Atlantic Coast Conference Swimming
1995 – 1999	UNC Varsity Swim Team Member

Extracurricular Activities

Fellowship

-Childrens Healthcare of Atlanta OR to ICU transfer of care committee 2011

Residency Training:

-Carolinas Medical Center House Staff Liaison Committee member 2006-2010

Medical School:

-U of L Student Government Health Science Center Liaison, 2001-2002

-U of L Surgery Club coordinator, 2000-2002

-Gross Anatomy Laboratory Assistant, 2000

-Tour Guide for U of L Medical School interviewees, and
High school students, 1999- 2002

Undergraduate School:

-UNC Student-Athlete Council Representative, 1997-1999

-Counselor at Camp Carefree, Summer 1998

Employment

-Peer Tutor in Gross Anatomy and Physiology, 2001-2002

-Norton Hospital Revenue Enhancement Project, Summer 2001

Professional Memberships and Responsibilities

American College of Surgeons, Member
Society for American Gastrointestinal Endoscopic Surgeons, Candidate Member
Southeastern Surgical Congress, Resident Member

Research Experience

2006-2007 Research Fellow in Carolinas Medical Center Department of Surgery
Division of Gastrointestinal and Minimally Invasive Surgery
Summer 2001 University of Louisville Summer Research Scholar
Summer 2000 University of Louisville Summer Research Scholar

Selected Peer-reviewed publications

1. Reid, KH., Paskitti, M., Guo, SZ., **Schmelzer, TM.**, Iyer, V. Experience with ketamine and sodium pentobarbital as anesthetics in a rat model of cardiac arrest and resuscitation. *Resuscitation* 2003;57(2):201-10.
2. **Schmelzer, TM.**, Hope, WW., Iannitti, DA., Kercher, KW., Heniford, BT. Laparoscopic colostomy takedown offers advantages over traditional surgery. *J Min Access Surg* 2006;2:201-202.
3. **Schmelzer, TM.**, Perron, AD., Thomason, MH., Sing, RF. A Comparison of Central Venous and Arterial Base Deficit as a Predictor of Survival in Acute Trauma. *American Journal of Emergency Medicine*. 2008 Feb;26(2):119-23.
4. **Schmelzer, TM.**, Mostafa, G., Lincourt, AE., Camp, SM., Kercher, KW., Kuwada, TS., Heniford, BT. Factors Affecting Length of Stay Following Colonic Resections. *Journal of Surgical Research*. 2008 May 15;146(2):195-201.
5. **Schmelzer, TM.**, Mostafa, G., Lincourt, AE., Newcomb, WL., Hope, WW., Norton, HJ., Kercher KW., Kuwada, TS., Heniford, BT. Reversal of Hartmann's Procedure: A High Risk Operation? *Surgery*. 2007 Oct;142(4):598-606; discussion 606-7
6. Hope, WW, Newcomb, WL, **Schmelzer, TM**, Pope, SD, Lincourt, AE, Heniford, BT, Sing, DO. Regarding Timely Administration of Prophylactic Antibiotics for Major Surgical Procedures. *J Am Coll Surg*. 2007 Jul;205(1):189-90.
7. Hope WW, **Schmelzer TM**, Newcomb WL, Kercher KW, Heniford BT. Technique and Outcomes of Laparoscopic Ventral Hernia Repair. In Press *JIMSA*.
8. **Schmelzer TM**, Christmas AB, Jacobs DG, Heniford BT, Sing RF. Imaging of the Vena Cava in the Intensive Care Unit Prior to Vena Cava Filter Insertion: Carbon Dioxide as an Alternative to Iodinated Contrast. *American Surgeon* 2008 Feb;74(2):141-5.
9. **Schmelzer TM**, Rana AR, Walters KC, Norton HJ, Bambini DA, Heniford BT. Improved Outcomes for Laparoscopic Appendectomy Compared with Open Appendectomy in the Pediatric Population. *J of Laparoscopic and Adv Surgical Techniques*. 2007 Oct;17(5):693-7.

10. Newcomb W, Lincourt A, Hope W, **Schmelzer T**, Sing R, Kercher K, Heniford BT. Prospective, double-blinded, randomized, placebo-controlled comparison of local anesthetic and nonsteroidal anti-inflammatory drugs for postoperative pain management after laparoscopic surgery. *Am Surg.* 2007 Jun;73(6):618-24
11. Hope WW, **Schmelzer TM**, Newcomb WL, Heath JJ, Lincourt HJ, Heniford BT, Iannitti DA. Guidelines for Power and Time Variables for Microwave Ablation in a Porcine Liver. *J Gastrointest Surg.* 2008 Mar;12(3):463-7
12. Hope WW, Demeter BL, Newcomb WL, **Schmelzer TM**, Schiffern LM, Heniford BT, Sing RF. Postoperative Pulmonary Embolism: Timing, Diagnosis, Treatment, and Outcomes. *Am J Surg.* 2007 Dec;194(6):814-8; discussion 818-9.
13. Newcomb, WL., Hope, WW., **Schmelzer, TM.**, Heath, JJ., Norton, HJ., Lincourt, AE., Heniford, BT., Iannitti, DA: Comparison of blood vessel sealing among new electrosurgical and ultrasonic devices. *Surgical Endoscopy* May 16, 2008 (epub ahead of press).
14. **Schmelzer TM**, Iannitti DA, Heniford BT. The management of enterocutaneous fistulas involving mesh placed for ventral hernia repair. In press. *Operative Techniques in General Surgery.*
15. Hope WW, **Schmelzer TM**, Newcomb WL, Heath JJ, Lincourt AE, Norton HJ, Heniford BT, Iannitti DA. Guidelines for Power and Time Variables for Microwave Ablation in an *In-Vivo* Porcine Kidney. *Journal of Surgical Research*, January, 2008
16. Hope WW, Lincourt AE, Newcomb WL, **Schmelzer TM**, Kercher KW, Heniford BT. Comparing Quality-of-Life Outcomes in Symptomatic Patients Undergoing Laparoscopic or Open Ventral Hernia Repair. *Journal of Laparoendoscopic & Advanced Surgical Techniques.* Aug 2008, 18(4): 567-71.
17. **Schmelzer, TM.**, Mostafa, G., Gunter, OL., Norton, HJ., Sing, RF. Evaluation of Selective Management of Penetrating Abdominal Trauma. *Journal of Surgical Education.* Sept-Oct 2008, 65(5): 340-45.
18. Walters KC, Paton BL, **Schmelzer TM**, Gersin KS, Iannitti DA, Kercher KW, Heniford BT. Treatment of appendiceal adenocarcinoma in the United States: penetration and outcomes of current guidelines. *Am Surg.* 2008 Nov; 74(11): 1066-8.
19. Hope WW, Zerey M, **Schmelzer TM**, Newcomb WL, Paton BL, Heath JJ, Peindl RD, Norton HJ, Lincourt AE, Heniford BT, Gersin KS. A Comparison of Gastrojejunal Anastomoses with or Without Buttressing in a Porcine Model. *Surgical Endoscopy*, Oct 2 2008 (epub ahead of print).
20. Hope WW, Lincourt AE, Newcomb WL, **Schmelzer TM**, Kercher KW, Heniford BT Comparing Quality of Life Outcomes in Symptomatic Patients Undergoing Laparoscopic or Open Ventral Hernia Repair. *Journal Laparoendoscopic and Advanced Surgical Techniques.* 2008 Aug;18(4):567-71.
21. **Schmelzer TM**, Christmas AB, Taylor D, Heniford BT, Sing RF. Vena cava filter retrieval in therapeutically anticoagulated patients. *American Journal of Surgery* 2008 Dec;196(6):944-6; discussion 946-7.

22. **Schmelzer TM**, Heath JJ, Hope WW, Mostafari A, Novitsky Y, Heniford BT. The effect of preoperative corticosteroids on peritoneal macrophage function after laparoscopic and open abdominal surgery in a rat model. *American Journal of Surgery* 2008 Dec;196(6):920-4; discussion 924-5.
23. Christmas AB, Camp SM, Barrett MC, **Schmelzer TM**, Norton HJ, Huynh TT, Thomason MH, Sing RF. Removal of erythropoietin from anaemia trauma practice guideline does not increase red blood cell transfusions and decreases hospital utilization costs. *Injury*. 2009 Dec;40(12):1330-5.
24. Christmas AB, Brintzenhoff RA, Sing RF, **Schmelzer TM**, Bolton SD, Miles WS, Thomason MH. Resident work hour restrictions impact chief resident operative experience. *Am Surg*. 2009 Nov;75(11):1065-8.
25. Hope WW, Padma S, Newcomb WL, **Schmelzer TM**, Heath JJ, Lincourt AE, Heniford BT, Norton HJ, Martinie JB, Iannitti DA. An evaluation of electrosurgical vessel-sealing devices in biliary tract surgery in a porcine model. *HPB (Oxford)*. 2010 Dec;12(10):703-8.
26. Christmas AB, Brintzenhoff RA, **Schmelzer TM**, Head KE, Sing RF MOPEDS: Motorized Objects Propelling Ethanol Drinking Subjects. *Am Surg*. 2011 Mar;77(3):304-6.

Manuscripts Submitted

1. **Schmelzer TM**, Beckham HD, Mostafa G. Laparoscopic resection of Meckel's diverticulitis in an adult. Accepted to *Surgical Rounds*. In Press
2. **Schmelzer TM**, Widder N, Coyle J, Huynh T, Sing RF. Utilization of respiratory therapists for in-hospital endotracheal intubations. Submitted to *Chest*.
3. **Schmelzer TM**, Sing RF, Mostafa G, Huynh TT, Heniford BT. The effect of hemorrhagic shock on differences in arterial and venous blood gases in a rabbit model. Submitted to *Surgery*
4. **Schmelzer TM**, Barrett MC, Christmas AB, Norton HJ, Heniford BT, Sing RF. Vancomycin intermittent dosing versus continuous infusion for empiric treatment of ventilator associated pneumonia in trauma patients. Submitted to *Journal of Trauma*
5. **Schmelzer TM**, Joels CS, Mostafa G, Kercher KW, Sing RF, Norton HJ, Heniford BT. Are colon resection outcomes affected by surgeon experience or level of training. Submitted to *American Surgeon*.

Book Chapters Authored:

1. **TM Schmelzer**: Coagulation and Anticoagulation. *Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE*. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006

2. **TM Schmelzer:** Esophageal Function Tests. . Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
3. **TM Schmelzer:** Esophageal Neoplasms. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
4. **TM Schmelzer:** Lymphoma. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
5. **TM Schmelzer:** Nonmelanoma Skin Malignancies. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
6. **TM Schmelzer:** Pancreas Anatomy. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
7. **TM Schmelzer:** Pediatric Abdominal Wall Defects. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
8. **TM Schmelzer:** Pediatric Hernias. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
9. **TM Schmelzer:** Pediatric Solid Tumors. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
10. **TM Schmelzer:** Soft Tissue Infections. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
11. **TM Schmelzer:** Soft Tissue Sarcomas. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
12. **TM Schmelzer:** Transfusion Treatments. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
13. **TM Schmelzer:** Visceral Aneurysms. Book Review of Surgery: Basic Science and Clinical Topics for the ABSITE. Editors: G Mostafa, L Cathey, F Greene. Publisher: Springer 2006
14. **TM Schmelzer:** Neonatal Trauma and Birth Injuries Chapter. Pediatric Surgery. Editor: Robert Arensman. Publisher: Landes Bioscience. In press
15. **TM Schmelzer:** Testicular Tumors Chapter. Pediatric Surgery. Editor: Robert Arensman. Publisher: Landes Bioscience. In press
16. **TM Schmelzer:** Neonatal Ascites Chapter. Pediatric Surgery. Editor: Robert Arensman. Publisher: Landes Bioscience. In Press

Oral Presentations

1. Polhill, JL., **Schmelzer, TM.**, Hope, WW., Newcomb, WL., Carbonell, AR., Gersin, KS., Getz, SB., Kercher, KW., Heniford, BT. Staged Hernia Repair Preceded by Gastric Bypass for the Treatment of Morbidly Obese Patients with Complex Ventral Hernias. Oral presentation American Hernia Society 2007.
2. Hope WW, Newcomb WL, **Schmelzer TM**, Lincourt AE, Kercher KW, Heniford BT Comparing Quality of Life Outcomes in Symptomatic Patients Undergoing Laparoscopic Versus Open Ventral Hernia Repair. Oral Presentation American Hernia Society 2007.
3. **Schmelzer, TM.**, Mostafa, G., Lincourt, AE., Newcomb, WL., Hope, WW., Norton, HJ., Kercher KW., Kuwada, TS., Heniford, BT. Reversal of Hartmann's Procedure: A High Risk Operation?. Oral Presentation at Central Surgical Meeting, March, 2007.
4. Hope, WW., **Schmelzer, TM.**, Newcomb, WL., Heath, JJ., Lincourt, AE., Norton, HJ., Heniford, BT., Iannitti, DA. Guidelines For Power And Time Variables For Microwave Ablation In An In-Vivo Porcine Kidney. Oral presentation American Urologic Association 2007.
5. Hope, WW., **Schmelzer, TM.**, Newcomb, WL., Heath, JJ., Lincourt, AE., Norton, HJ., Heniford, BT. Guidelines For Power And Time Variables For Microwave Ablation In A Porcine Liver. Oral Presentation at American Hepatopancreaticobiliary Association April, 2007.
6. Demeter BL, Hope WW, Newcomb WL, **Schmelzer TM**, Lincourt AE, Schifferrn LM, Heniford BT, Sing RF. Postoperative Pulmonary Embolism: Timing, Diagnosis, Treatment, and Outcomes. Accepted Oral Southwestern Surgical Congress April 2007.
7. William W. Hope, MD, **Thomas M. Schmelzer, MD**, William L. Newcomb, MD, Jessica J. Heath, BS, Amy L. Lincourt, PhD, H. James Norton, PhD, MD, B. Todd Heniford, MD, David A. Iannitti, MD. Guidelines For Power And Time Variables For Microwave Ablation In An In-Vivo Porcine Kidney. Oral Presentation American Urologic Association May 2007.
8. **Thomas M. Schmelzer**, William W. Hope, William L. Newcomb, H. James Norton, Gamal Mostafa, Kent W. Kercher, B. Todd Heniford. Enterocutaneous Fistula (ECF) Involving Mesh Placed for Ventral Hernia Repair. Oral Presentation European Hernia Society, May, 2007.
9. William L. Newcomb, MD, William W. Hope, MD, **Thomas M. Schmelzer, MD**, H. James Norton, PhD, Amy E. Lincourt, PhD, Gamal Mostafa, MD, David A. Iannitti, MD, B. Todd Heniford, MD. Long-Term Outcomes after Abdominal Wall Fascial Repair with Acellular Human Dermis. Oral Presentation European Hernia Society, May, 2007.
10. William L. Newcomb, MD, Jessica J. Heath, William W. Hope, MD, **Thomas M. Schmelzer, MD**, Amy E. Lincourt, PhD, David A. Iannitti, MD, B. Todd Heniford, MD. Growth of Adult Lewis Rat Stem Cells on Polygalactin 910 Mesh. Oral Presentatation European Hernia Society, May, 2007.
11. Hope WW, **Schmelzer TM**, Newcomb WL, Heath JJ, Lincourt AE, Kercher KW, Gersin KS, Heniford BT. The Effect of Heparin Coated ePTFE on Abdominal

- Adhesion Formation. Accepted Oral Presentation European Hernia Society, May, 2007.
12. **Schmelzer TM**, Sing RF, Mostafa G, Huynh TT, Heniford BT. The effect of hemorrhagic shock on differences in arterial and venous blood gases in a rabbit model. Oral Presentation North Carolina Committee on Trauma resident paper competition, July 2007.
 13. Newcomb WL, Hope WW, **Schmelzer TM**, Norton HJ, Lincourt AE, Mostafa G, Iannitti DA, Heniford BT. Acellular Human Dermis Biomaterials-Long-term Natural Anisotropy and Outcomes in Ventral Hernia Repair. Oral Presentation NC ACS meeting, July 8, 2007.
 14. **Schmelzer TM**, Mostafa G, Hope WW, Newcomb WL, Lincourt AE, Kercher KW, Kuwada T, Heniford BT. Reversal of a Hartmann's Procedure: Is This a High Risk Procedure? Oral Presentation NC ACS meeting, July 8, 2007.
 15. Hope WW, **Schmelzer TM**, Newcomb WL, Lang NP, Stewart A, Lincourt AE, Sing RF, Greene FL, Heniford BT. Assessing The Effects Of Hospital Case Volume On Outcomes In Colorectal Cancer. Oral Presentation, American College of Surgeons Clinical Congress, October, 2007.
 16. Newcomb WL, Hope WW, **Schmelzer TM**, Norton HJ, Lincourt AE, Mostafa G, Iannitti DA, Heniford BT. Long-Term Outcomes Following Dermal Matrix Used as a Fascial Bridge. Oral Presentation, American College of Surgeons Clinical Congress, October 2007.
 17. Christmas AB, Barrett C, **Schmelzer TM**, Huynh TT, Thomason MH, Sing RF. Removal of erythropoietin from anemia trauma practice guideline does not increase red blood cell transfusions and decreases hospital utilization costs. Oral presentation AAST Oct 2007.
 18. **Schmelzer TM**, Sing RF, Mostafa G, Huynh TT, Heniford BT. The effect of hemorrhagic shock on differences in arterial and venous blood gases in a rabbit model. Oral Presentation Southeastern Regional Committee on Trauma resident paper competition, November 2007.
 19. **Schmelzer TM**, Joels CS, Mostafa G, Kercher KW, Sing RF, Norton HJ, Heniford BT. Are colon resection outcomes affected by surgeon experience or level of training. Oral presentation Southeastern Surgical Congress Feb 2008.
 20. **Schmelzer TM**, Chen AY, Stefanidis D, Lincourt AE, Kercher KW, Kuwada TS, Gersin KS, Heniford BT. Laparoscopic cecectomy of cecal cap masses. Oral presentation Southeastern Surgical Congress Feb 2008.
 21. Newcomb WL, MD, Hope WW, MD, **Schmelzer TM**, MD, Lincourt AE, PhD, Heniford BT, MD. Development of a Functional, Internet-Accessible Department of Surgery Outcomes Database. Oral Presentation Southeastern Surgical Congress, Birmingham, Feb 2008.
 22. Paton BL, **Schmelzer TM**, Norton HJ, Gersin KS, Iannitti DA, Kercher KW, Heniford BT. Treatment of Adenocarcinoma appendiceal cancer in the United States: are current guidelines affecting outcome? Oral Presentation Southeastern Surgical Congress Feb 2008.
 23. **Schmelzer TM**, Mostafa G, Norton HJ, Kercher KW, Kuwada TS, Heniford BT. Outcomes of colectomy in the elderly patient. Oral presentation, Academic Surgical Congress, Huntington Beach, Feb 2008.

24. Newcomb WL, Heath JJ, Hope WW, **Schmelzer TM**, Lincourt AE, Iannitti DA, Heniford BT. Stem Cell Coated Biomaterials –A Possibility in Hernia Repair. Oral presentation, Academic Surgical Congress, Huntington Beach, CA, Feb 2008.
25. Newcomb WL, Hope WW, **Schmelzer TM**, Walters AL, Lyons CL, Christmas AB, Heniford BT, Sing RF. Geriatric Patients with Head Injuries and Splenic Injuries A Review of the National Trauma Databank. Oral presentation, Academic Surgical Congress, Huntington Beach, Feb 2008.
26. Zerey M, **Schmelzer TM**, Joels CS, Sing RF, Lincourt AE, Kercher KW, Heniford BT. Predictors of mortality in patients with blunt diaphragmatic rupture. Oral presentation Academic Surgical Congress, Huntington Beach, Feb 2008.
27. Hope WW, Newcomb WL, **Schmelzer TM**, Heath JJ, Heniford BT, Iannitti DA. An Evaluation Of Novel Electrosurgical Devices In Biliary Tract Surgery. Oral presentation, AHPBA meeting, March 27-30, 2008.
28. Polhill JL, **Schmelzer TM**, Norton HJ, Hope WW, Lincourt AE, Kercher KW, Gersin KS, Heniford BT. Postoperative Urinary Retention After Elective Inguinal Hernia Repair: A Case-Control Study. Accepted Oral presentation, American Hernia Society meeting, Scottsdale, AZ, March 12-16, 2008
29. **Schmelzer TM**, Heath JJ, Hope WW, Newcomb WL, Mostafari A, Novitsky Y, Heniford BT. The effect of preoperative corticosteroids on peritoneal macrophage function after laparoscopic and open abdominal surgery in a rat model. Accepted Oral presentation, Southwestern Surgical Congress, Acapulco, Mexico, March 30-April 2, 2008
30. **Schmelzer TM**, Christmas AB, Taylor D, Heniford BT, Sing RF. Vena cava filter retrieval in therapeutically anticoagulated patients. Oral presentation Southwestern Surgical Congress April 2008.
31. **Schmelzer TM**, Barrett MC, Christmas AB, Norton HJ, Heniford BT, Sing RF. Vancomycin intermittent dosing versus continuous infusion for empiric treatment of ventilator associated pneumonia in trauma patients. Oral presentation AAST, September 2008.
32. **Schmelzer TM**, Barrett MC, Christmas AB, Norton HJ, Heniford BT, Sing RF. Vancomycin intermittent dosing versus continuous infusion for empiric treatment of ventilator associated pneumonia in trauma patients. Oral presentation NC COT resident research competition, July 2009.
33. **Schmelzer TM**, Barrett MC, Christmas AB, Norton HJ, Heniford BT, Sing RF. Vancomycin intermittent dosing versus continuous infusion for empiric treatment of ventilator associated pneumonia in trauma patients. Oral presentation Southeast regional COT resident research competition November 2009.
34. **Schmelzer TM**, Barrett MC, Christmas AB, Norton HJ, Heniford BT, Sing RF. Vancomycin intermittent dosing versus continuous infusion for empiric treatment of ventilator associated pneumonia in trauma patients. Oral presentation National COT resident research competition, March 2010.

Poster Presentations

1. **Schmelzer, TM**, Reid, KH, Iyer, V. "Time Course of Blood Brain Barrier Leakage after global ischemia in Long Evans Rat" Poster Presentation 2000 Research Louisville
2. **Schmelzer, TM**, Reid, KH, Iyer, V. "Use of ATP-MgCl₂ to restore Blood Brain Barrier in post ischemic rats" Poster 2001 Research Louisville
3. **Schmelzer, TM.**, Mostafa, G., Gunter, OL., Norton, HJ., Sing, RF. Evaluation of Selective Management of Penetrating Abdominal Trauma. Poster Presentation Southeastern Surgical Congress, Feb 2006.
4. **Schmelzer, TM.**, Evans, SL., Jacobs, DG., Heniford, BT., Sing, RF. Bedside Carbon Dioxide (CO₂) Cavography for Vena Cava Filter (VCF) Insertion in the ICU. Poster Presentation American College of Surgeons Clinical Congress, October 2006.
5. **Schmelzer, TM.**, Mostafa, G., Lincourt, AE., Camp, S., Hope, WW., Newcomb, WL., Kercher, KW., Kuwada, TS., Heniford, BT. Factors Affecting Length of Stay Following Colonic Resections. Poster Presentation at Association of Academic Surgeons, February 2007.
6. Zerey, M., Peindl, D., Paton, B., Hope, W., Newcomb, W., **Schmelzer, T.**, Cristiano, J., Heath, J., Lincourt, E., Kercher, K., Gersin, K., Heniford, B. Anastomotic Leaks: A Scientific Perspective. Poster Presentation, Association of Academic Surgery 2007, February, 2007.
7. Demeter BL, Hope WW, **Schmelzer TM**, Newcomb WL, Lincourt AE, Kuwada T, Gersin K, Heniford BT, Sing RF. An Evaluation Of Postoperative Pulmonary March, 2007.
8. **TM Schmelzer**, BL Paton, WW Newcomb, WW Hope, JH Norton, TS Kuwada, KS Gersin, BT Heniford. Changes in Bladder Pressure in morbidly obese patients 1-Year after Gastric Bypass Surgery. Poster presentation SAGES 2007
9. **TM Schmelzer**, William W. Hope, William L. Newcomb, Keith S. Gersin, David A. Iannitti, B. Todd Heniford. Evaluation of the Use of a New Impedance Controlled Bipolar Device with Monopolar Capability. Accepted Poster at SAGES 2007 Emerging Technologies Session
10. Hope WW, Zerey, M., **Schmelzer, TM.**, Paton, BL., Newcomb, WL., Chen, AY., Heath, JJ., Peindl, R., Lincourt, AE., Kuwada, TS., Heniford, BT., Gersin, KS. A Comparison of Burst Pressures of Gastrojejunal Anastomoses with and without Buttressing in a Porcine Model. Poster presentation, Emerging Technologies/SAGES, April 21-22 Las Vegas, NV, 2007.
11. Lincourt AE, **Schmelzer TM**, Hope WW, Newcomb WL, Kercher KW, Heniford BT. Surgical Technique Predictor of Length of Hospital Stay, Post-Operative Morbidity and Inpatient Cost Following Colonic Surgery. Poster Presentation Southwestern Surgical Congress 2007.
12. **Schmelzer TM**, Chen, AY, Hope WW, Newcomb WL, Kuwada TS, Gersin KS, Heniford BT, Sing, RF.. Retrievable IVC filters in the bariatric population. Poster Presentation Southwestern Surgical Congress 2007.
13. WW Hope, WL Newcomb, **TM Schmelzer**, AE Lincourt, RF Sing, KW Kercher, KS Gersin, BT Heniford. Performance of the Electrothermal Bipolar Vessel

- Sealer in 402 Consecutive Bowel Resections. Accepted Poster Presentation SSAT May 2007.
14. **Schmelzer, TM**, Chen, AY., Newcomb WL., Hope, WW., Norton, HJ., Lincourt, AE., Gersin, KS., Heniford, BT., Kuwada, TS. Improved C-Reactive Protein Levels 1 Year After Roux-en-Y Gastric Bypass Operation. Poster Presentation American Society for Bariatric Surgery 2007.
 15. **TM Schmelzer MD**, AY Chen MD, WL Newcomb MD, WW Hope MD, HJ Norton PhD, AK Lincourt PhD, KS Gersin MD, BT Heniford MD, TS Kuwada MD. Use of Helicobacter pylori stool antigen in the evaluation of gastric bypass patients. Poster Presentation, American Society for Bariatric Surgery Meeting, San Diego, June, 2007.
 16. Newcomb WL, Hope WW, **Schmelzer TM**, Norton HJ, Lincourt AE, Mostafa G, Iannitti DA, Sing RF, Heniford BT. Long-Term Outcomes after Abdominal Wall Reconstruction with Acellular Human Dermis in Patients with Abdominal Injuries. Accepted Poster AAST
 17. **Schmelzer TM**, Mostafa G, Gillette MT, Hope WW, Newcomb WL, Heniford BT. Intraoperative Deaths During "Elective" Surgical Procedures. Poster presentation. American College of Surgeons Clinical Congress, October, 2007
 18. **Schmelzer TM**, Hope WW, Newcomb WL, Kuwada TS, Heniford BT, Gersin KS. Using air-displacement plethysmography to assess preoperative body composition in patients undergoing bariatric surgery. Poster presentation. American College of Surgeons Clinical Congress, October, 2007
 19. Hope WW, **Schmelzer TM**, Newcomb WL, Barrett HC, HJ Norton, Kim A, Salahshour J, Huynh TT, Heniford BT, Sing RF. Factors Affecting The Overuse Of Stress Ulcer Prophylaxis In Patients In The Intensive Care Unit. Accepted poster presentation, Chest meeting, Chicago, IL, Oct 20-25, 2007
 20. Newcomb WL, Hope WW, **Schmelzer TM**, Norton HJ, Head K, Christmas AB, Heniford BT, Sing RF. Non-Operative Management of Splenic Injuries in Head Injured Patients: Data from a Local Trauma Registry. Poster presentation, Southeastern Surgical meeting, Birmingham, AL, Feb 9-12, 2008.
 21. Mallico EJ, **Schmelzer TM**, Bambini DA, Huynh, TT. Distribution of Ethnicity and Insurance Status for hypertrophic pyloric stenosis between two healthcare systems in a southeast metropolitan region. Poster presentation Southeastern Surgical Congress February 2008.
 22. Hope WW, Newcomb WL, **Schmelzer TM**, Heath JJ, Heniford BT, Iannitti DA. An Evaluation of Novel Electrosurgical Devices in Biliary Tract Surgery. Accepted poster presentation, IHPBA meeting, Mumbai, India, February, 2008.
 23. **Schmelzer TM**, Paton BL, Newcomb WL, Hope WW, Norton JH, Kuwada TS, Gersin KS, Heniford BT. Changes in Bladder Pressure in Morbidly Obese Patients 1-Year After Gastric Bypass Surgery. Accepted poster presentation American Hernia Society meeting, Scottsdale, AZ, March 12-16, 2008
 24. Newcomb WL, Hope WW, **Schmelzer TM**, Walters AL, Lyons CL, Christmas AB, Heniford BT, Sing RF. Head Injured Children with Splenic Injuries: A Review of the National Trauma Databank. Accepted poster presentation, Southwestern Surgical Congress, Acapulco, Mexico, March 30-April 2, 2008.

25. Newcomb WL, Hope WW, **Schmelzer TM**, Walters AL, Lyons CL, Christmas AB, Heniford BT, Sing RF. Non-Operative Management of Splenic Injuries in Comatose Head Injured Patients: A Review of the National Trauma Data Bank. Accepted poster presentation, Southwestern Surgical Congress, Acapulco, Mexico, March 30-April 2, 2008.
26. **Schmelzer TM**, Heath JJ, Hope WW, Newcomb WL, Lincourt AE, Sing RF, Iannitti DA, Heniford BT. The use of electrosurgical devices compared to clamp tie technique for small bowel resection in a porcine model. Accepted poster of distinction, Southwestern Surgical Congress, Acapulco, Mexico, March 30-April 2, 2008.
27. Dolce CJ, Keller JE, **Schmelzer TM**, Griffin D, Norton HJ, Heniford BT, Kercher KW. Left versus right donor nephrectomy: Outcomes Analysis in 267 consecutive patients. Poster Presentation Southwestern Surgical Congress April 2008.
28. **Schmelzer TM**, Walters KC, Bambini DA, Attorri R, Morton D, Heniford BT. Adrenocortical carcinoma in the pediatric population: trends in treatment and survival over time. Poster Presentation APSA May 2008
29. **Schmelzer TM**, Walters KC, Bambini DA, Attorri R, Morton D, Heniford BT. Trends in thyroid cancer in the pediatric patient population. Poster Presentation APSA May 2008
30. **Schmelzer TM**, Christmas AB, Christian N, Sing RF. The overuse of abdominal and pelvic computed tomography in pediatric trauma patients. Poster Presentation AAST September 2008
31. Ronald F. Sing; **Thomas M. Schmelzer MD**; Nora Christian, Karen E. Head; A. Britton Christmas. Pediatric Non-accidental Trauma: The Impact is Abusive. Poster Presentation AAST September 2008

Grants

1. **Thomas M. Schmelzer MD**, William W Hope MD, William L. Newcomb MD, B. Todd Heniford MD: The effects of pre-operative steroid administration on serum and peritoneal immune response following laparoscopic and open surgery. Carolinas Laparoscopic and Advanced Surgery Program and Charlotte-Mecklenberg Health Services Foundation, December 2006, \$11,569.09.
2. **Thomas M. Schmelzer, MD**, William W Hope MD, William L. Newcomb MD, B. Todd Heniford MD, Kent W. Kercher: Outcomes in Laparoscopic versus Open Nephrectomy. Carolinas Laparoscopic and Advanced Surgery Program and Charlotte-Mecklenberg Health Services Foundation, March 2007, \$4,000.00.
3. William L. Newcomb MD **Thomas M. Schmelzer, MD**, William W Hope MD, Kent W. Kercher, B. Todd Heniford MD, Timothy S. Kuwada MD, Keith S. Gersin MD: Comparison of Laboratory Values with Dual-Energy X-Ray Absorptiometry After Weight Loss from Bariatric Surgery for Prediction of Changes in Fat Composition, Lean Body Mass, and Bone Mineral Density. Carolinas Laparoscopic and Advanced Surgery Program and Charlotte-Mecklenberg Health Services Foundation, March 2007, \$4,000.00.

4. William W. Hope, B. Todd Heniford, Kent W. Kercher, Ronald F. Sing, Amy E. Lincourt, William L. Newcomb, **Thomas M. Schmelzer**. Indications and Outcomes of Diagnostic and Therapeutic Upper and Lower Endoscopy. Education and Research Grants Committee, Carolinas Medical Center, March 2007. \$8,000.
5. William W. Hope, B. Todd Heniford, Kent W. Kercher, Amy E. Lincourt, **Thomas M. Schmelzer**, William L. Newcomb. An Evaluation of Mortality and Cardiopulmonary Arrest Occurring in Radiology. Education and Research Grants Committee, Carolinas Medical Center, March 2007. \$4,000.
6. William W. Hope MD, **Thomas M. Schmelzer MD**, William L. Newcomb MD, Kent W. Kercher MD, Mark Russo MD, B. Todd Heniford MD, David I. Iannitti MD. Comparison of systemic responses of radiofrequency ablation, cryotherapy, and microwave ablation in a porcine liver model. Carolinas Medical Center Education and Research Grant, June 2007, \$25,218.
7. William W. Hope MD, **Thomas M. Schmelzer MD**, William L. Newcomb MD, Amy E. Lincourt, PhD, Ian McKillop, B. Todd Heniford MD, David I. Iannitti MD. Altered Aquaporin Expression and Localization in Human Hepatocellular Carcinoma (HCC) and Adjacent Liver. Carolinas Medical Center Education and Research Grant, December 2007, \$4,709.00.