



FLORIDA  
SURGICAL  
SPECIALISTS

**Paul Toomey, M.D.**

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**Current:**

Florida Surgical Specialists, LLC

President/CEO 2015-current

607 Manatee Ave E Suite 102

Bradenton, FL 34208

Office: 941-216-3602

Fax: 941-216-3605

**Hospital/Surgery Center Affiliations:**

Blake Medical Center

2020 59th St W, Bradenton, FL 34209

941-792-6611

Manatee Memorial Hospital

206 2nd St E, Bradenton, FL 34208

941-746-5111

Gulf Coast Surgery Center

411 2nd St E, Bradenton, FL 34208

941-746-1121

**Education:**

Fellowship, HPB & Foregut Advanced Laparoscopic & Robotic Surgery, Florida Hospital Tampa 2012-2013

Research Fellowship, H. Lee Moffitt Cancer Center, 2011-2012

Residency, General Surgery, University of South Florida, 2009-2015

Internship, General Surgery, University of South Florida, 2008-2009

M.D., University of South Florida, 2008

B.S., Biomedical Engineering, Duke University, 2004

**Experience:**

Fellow, Hepatopancreatobiliary & Foregut Advanced Laparoscopic & Robotic Surgery, 2012-2013

Southeastern Center for Digestive Disorders and Pancreatic Cancer

Advanced Minimally Invasive and Robotic Surgery

Florida Hospital Tampa, Alexander Rosemurgy, MD / Sharona Ross, MD

Tampa, FL

Research Fellow, 2011-2012

H. Lee Moffitt Cancer Center

Dept of Immunology/Translational Research, Shari Pilon-Thomas, PhD

Tampa, FL

General Surgery Research Assistant, 2005  
Dept of Surgery, Tampa General Hospital, Alexander Rosemurgy, MD  
Tampa, FL

Biomedical Engineering Research Assistant, 2003  
Dept of Biomedical Engineering, Duke University, Gregg Trahey, PhD  
Durham, NC

Computer Programming Teaching Assistant, 2001  
Duke University  
Durham, NC

Intern Microbiologist, 2001  
Johns Hopkins University Applied Physics Laboratory  
Laurel, MD

Intern Engineer, 2000  
Mack Trucks, Inc.  
Hagerstown, MD

### **Publications**

1. **Toomey P**, Chipko J, Gonzalez C, Rasheid S, Marcet J, Sanchez J. Reduced Port Single-Site Colorectal Surgery: Collective Experience of Safety and Feasibility at a Tertiary Care Center. (Pending Submission)
2. **Toomey P**, Teta A, Patel K, Luberic K, Ross S, Rosemurgy A. Sulfonylureas (Not Metformin) Improve Survival For Patients With Diabetes and Resectable Pancreatic Adenocarcinoma. (Submitted)
3. **Toomey P**, Ross S, Patel K, Luberic K, Espeut A, Estores D, Boyce W, Rosemurgy A. Laparoscopic Heller Myotomy With Anterior Fundoplication Improves Frequency and Severity of Symptoms of Achalasia Regardless of Preoperative Severity Determined by Esophagography. (Submitted)
4. **Toomey P**, Ross S, Rosemurgy A. Laparo-Endoscopic Single-Site (LESS) Nissen and Toupet Funduplications: How We Do It. (Submitted)
5. **Toomey P**, Ross S, Teta A, Patel K, Ryan C, Sukharamwala P, Rosemurgy A. High-Volume Surgeons Versus High-Volume Hospitals: Are Best Outcomes More Due To Who Or Where? (Submitted)
6. **Toomey P**, Ross S, Ryan C, Rosemurgy A. Cost Analysis of Modern Approaches for Cholecystectomy Favors Laparoendoscopic Single-Site (LESS) Cholecystectomy with Epidural Anesthesia. (Submitted JSLS)
7. **Toomey P**, Teta A, Patel K, Sukharamwala P, Hennessey D, Ross S, Rosemurgy A. Transoral Incisionless Fundoplication: Is It as Safe and Efficacious as a Nissen or Toupet Fundoplication? *American Surgeon*. 2014. Sep;80(9):860-7. PMID 25197871
8. Mather A, Ross SB, Vice M, Kurian T, **Toomey P**, Luberic K, Choung E, Rosemurgy A. Margin Status Impacts Survival After Pancreaticoduodenectomy But Negative Margins Should Not Be Pursued. *American Surgeon*. 2014 Apr;80(4):353-60. PMID 24887665.
9. **Toomey P**, Ross S, Shah S, Rosemurgy A. A Systematic Review of Neoadjuvant Therapy Compared to the "Resection First" Approach for Patients With Borderline Resectable Pancreatic Adenocarcinoma. *Journal of Cancer Therapy* 2014;5, 91-100.
10. **Toomey P**, Ross S, Childs C, Luberic B, Rosemurgy A. Nontherapeutic Celiotomy Incidence Is Not Affected by Volume of Pancreaticoduodenectomy for Pancreatic Adenocarcinoma. *American Surgeon* 2013. Aug;79(8):781-5. PMID 23896244
11. **Toomey P**, Kodumudi K, Kuhn L, Moore E, Weber A, Sarnaik A, Pilon-Thomas S. Intralesional Injection of PV-10 Induces a Systemic Tumor-Specific Immune Response In Murine Models of Melanoma and Breast Cancer. *PLoS One* 2013. Jul 17;8(7). PMID 23874673
12. **Toomey P**, Golkar F, Hernandez J, Clark W, Luberic K, Alsina A, Rosemurgy A. Outcomes after TIPS: A "Bridge" To Nowhere. *Am J Surg* 2013 Apr;205(4):441-6. PMID 23375760
13. **Toomey P**, Vohra N, Ghansah T, Sarnaik A, Pilon-Thomas S. Immunotherapy for gastrointestinal malignancies. *Cancer Control*. 2013 Jan;20(1):32-42. PMID 23302905
14. Mullinax, Hernandez J, **Toomey P**, Ross S, Rosemurgy A. Survival After Pancreatectomy For Pancreatic Adenocarcinoma is Not Impacted By Performance Status. *Am J Surg* 2012. Nov;204(5):704-8. PMID 23140830

15. Rosemurgy A, Luberic K, Paul H, Co F, Vice M, **Toomey P**, Choung E, Ross S. Readmissions After Pancreaticoduodenectomy: Efforts Need to Focus on Patient Expectations and Nonhospital Medical Care. *Am Surg* 2012 Aug;78(8):837-43. PMID: 22856489
16. **Toomey P**, Hernandez J, Golkar F, Ross S, Luberic K, Rosemurgy A. Pancreatic Adenocarcinoma: Complete Tumor Extirpation Improves Survival Benefit Despite Larger Tumors for Patients Who Undergo Distal Pancreatectomy and Splenectomy. *J Gastrointest Surg*. 2012 Feb;16(2):376-81. PMID 22135126
17. Clark W, Golkar F, Luberic K, **Toomey P**, Paul H, Marcadis A, Okpaleke C, Vice M, Hernandez J, Alsina A, Rosemurgy AS. Uncovering the truth about covered stents: is there a difference between covered versus uncovered stents with transjugular intrahepatic portosystemic shunts? *Am J Surg*. Sep 2011. PMID 21944293.
18. Clark CW, Hernandez J, McKeon B, Kahn A, Morton C, **Toomey P**, Mullinax J, Ross S, Rosemurgy A. Surgery residency training programs have greater impact on outcomes after pancreaticoduodenectomy than hospital volume or surgeon frequency. *HPB*. 2010;12(1):68-72. PMID 20495648.
19. **Toomey P**, Ross S, Albrink M, Rosemurgy A. Increasing the Relevance of Laparoendoscopic Single-site Surgery. *Asian J of Endo Surg*. 2010;3(2):60–65.
20. **Toomey P**, Hernandez J, Morton C, Duce L, Farior T, Villadolid D, Ross S, Rosemurgy A. Resection of portovenous structures to obtain microscopically negative margins during pancreaticoduodenectomy for pancreatic adenocarcinoma is worthwhile. *Am Surg*. 2009 Sep;75(9):804-10. Pubmed ID 19774952.
21. Hernandez J, Villadolid D, **Toomey P**, Mullinax J, Clark W, Tomlinson L, Goldin S, Rosemurgy A. Survival after Pancreaticoduodenectomy is Not Improved by Extending Resections to Achieve Negative Margins. *Ann Surg*. 2009 Jul;250(1):76-80. Pubmed ID: 19561479.

### Chapter

1. Cox J, **Toomey P**, Tummel E, Gabordi R, Cox C. “Ablative Technique in the Treatment of Benign and Malignant Breast Disease”. *Current Surgical Therapy*, 11th edition. Ed. John Cameron, Ed. Andrew Cameron. Saunders. 2013

### Moderator

1. General Surgery Concurrent Scientific Session. Society of Laparoendoscopic Surgeons (SLS) and Affiliated Societies. New York, NY. Minimally Invasive Surgery Week Annual Meeting 2015: SLS Annual Meeting & Endo Expo. Sept 2015.
2. General Surgery Concurrent Scientific Session. Society of Laparoendoscopic Surgeons (SLS) and Affiliated Societies. Las Vegas, NV. Minimally Invasive Surgery Week Annual Meeting 2014: SLS Annual Meeting & Endo Expo. Sept 2014.

### Presentations

1. **Toomey P**, Ross S, Bowman T, Luberic K, Rosemurgy A. Resident Education with Laparo-Endoscopic Single Site (LESS) Cholecystectomy with Epidural Anesthesia. Las Vegas, NV. Minimally Invasive Surgery Week Annual Meeting 2014: SLS Annual Meeting & Endo Expo. Sept 2014. (Oral Video)
2. **Toomey P**, Ross S, Bowman T, Luberic K, Ryan C, Rosemurgy A. Resident Education with Laparo-Endoscopic Single Site (LESS) Toupet Fundoplication. Las Vegas, NV. . Minimally Invasive Surgery Week Annual Meeting 2014: SLS Annual Meeting & Endo Expo. Sept 2014. (Oral Video) *\*Best General Surgery Video by a Resident at MIS Week 2014 \*Honorable Mention for the Carl J. Levinson Award for Best Video at MIS Week 2014*
3. **Toomey P**, Ross S, Arevalo F, Goyack L, Rodriguez E, Teta A, Luberic K, Rosemurgy A. Transoral Incisionless Fundoplication: Is It as Safe and Efficacious as a Nissen or Toupet Fundoplication? Savannah, GA. Southeastern Surgical Congress. February 2014 (Oral)
4. Wood T, Ross S, Jacobi B, Konstantinidis M, Ryan C, **Toomey P**, Rosemurgy A. Reoperative Heller Myotomy: More Pain, Less Gain. Savannah, GA. Southeastern Surgical Congress. February 2014 (Oral)
5. **Toomey P**, Ross S, Teta A, Patel K, Ryan C, Sukharamwala P, Rosemurgy A. High-Volume Surgeons Versus High-Volume Hospitals: Are Best Outcomes More Due To Who Or Where? Americas Hepato-Pancreato-Biliary Association. Miami, FL. February 2014
6. Rosemurgy A, Mathur A, **Toomey P**, Luberic K, Choung E, Ross S. Margin Status Impacts Survival After Pancreaticoduodenectomy: But Negative Margins Should Not Be Chased. Ann Arbor, MI. October 2013 (Oral).
7. Ross S, Bowman T, Ryan C, **Toomey P**, Rosemurgy A. Laparo-Endoscopic Single Site (LESS) Toupet Fundoplication with Concomitant Cholecystectomy. Washington DC, American College of Surgeons Annual Clinical Congress. Oct 2013 (Oral)

8. **Toomey P**, Ross S, Ryan C, Rosemurgy C. Cost Analysis of Approaches for Cholecystectomy Favors LESS Cholecystectomy with Epidural Anesthesia. Minimally Invasive Surgery Week Annual Meeting and Endo Expo. Washington DC. August 2013 (Oral) \**Honorable Mention Scientific Paper: General Surgery*
9. Rosemurgy A, Luberic K, Francoeur J, **Toomey P**, Ross S. Laparo-Endoscopic Single Site (LESS) Adrenalectomy for Left Adrenal Adenoma. Minimally Invasive Surgery Week Annual Meeting and Endo Expo. Washington DC. August 2013 (Oral)
10. Ryan C, Ross S, Jacobi B, Paul H, Luberic K, **Toomey P**, Rosemurgy A. Dissatisfaction after Heller Myotomy. Orlando, FL. Society for Surgery of the Alimentary Tract/Digestive Disease Week. May 2013 (Poster)
11. Mathur A, Ryan C, Luberic K, Co F, **Toomey P**, Ross S, Sanjeevi A, Brady P, Rosemurgy A. Long-Term Outcomes Following Endoscopic vs. Transduodenal Ampullectomies for Ampullary Adenomas Society for Surgery of the Alimentary Tract/Digestive Disease Week. May 2013 (Poster)
12. **Toomey P**, Ross S, Jani K, Tkatch C, Sarabalis N, Luberic K, Rosemurgy A. Surgical APGAR Does Not Predict Morbidity or Mortality for Patients Undergoing Pancreaticoduodenectomy for Pancreatic Adenocarcinoma Society for Surgery of the Alimentary Tract/Digestive Disease Week. Orlando, FL. May 2013 (Poster)
13. **Toomey P**, Ross S, Childs C, Patel K, Luberic B, Choung E, Rosemurgy A. Nontherapeutic Celiotomy Incidence Is Not Affected by Volume of Pancreaticoduodenectomy for Pancreatic Adenocarcinoma. Pancreas Club. Orlando, FL. May 2013 (Poster)
14. **Toomey P**, Ross S, Joseph A, Teta A, Paul H, Luberic K, Rosemurgy A. Metformin Does Not Increase Survival for Patients with Diabetes Who Undergo Pancreaticoduodenectomy for Pancreatic Adenocarcinoma. Pancreas Club. Orlando, FL. May 2013 (Poster)
15. Mather A, Ross S, Vice M, Kurian T, **Toomey P**, Luberic K, Choung E, Rosemurgy A. Margin Status Impacts Survival after Pancreaticoduodenectomy but Negative Margins Should Not Be Pursued. Pancreas Club. Orlando, FL. May 2013 (Oral)
16. Pilon-Thomas S, Weber A, Kodumudi K, Kuhn L, **Toomey P**, Sarnaik A. Intralesional Injection with PV-10 Induces a Systemic Anti-tumor Immune Response in Murine Models of Breast Cancer and Melanoma. AACR. Washington, D.C. April 2013 (Poster)
17. **Toomey P**, Ross S, Childs C, Patel K, Luberic B, Choung E, Rosemurgy A. Nontherapeutic Celiotomy Incidence Is Not Affected by Volume of Pancreaticoduodenectomy for Pancreatic Adenocarcinoma. Americas Hepato-Pancreato-Biliary Association. Miami Beach, FL. February 2013 (Poster)
18. **Toomey P**, Ross S, Joseph A, Teta A, Paul H, Luberic K, Rosemurgy A. Metformin Does Not Increase Survival for Patients with Diabetes Who Undergo Pancreaticoduodenectomy for Pancreatic Adenocarcinoma. Americas Hepato-Pancreato-Biliary Association. Miami Beach, FL. February 2013 (Poster)
19. **Toomey P**, Ross S, Joseph A, Teta A, Luberic K, Rosemurgy A. Patients Without Insulin-Dependent Diabetes or Hyperlipidemia Have Increased Survival After Pancreaticoduodenectomy for Pancreatic Adenocarcinoma. Americas Hepato-Pancreato-Biliary Association. Miami Beach, FL. February 2013 (Poster)
20. **Toomey P**, Ross S, Childs C, Patel K, Luberic B, Choung E, Rosemurgy A. Nontherapeutic Celiotomy Incidence Is Not Affected by Volume of Pancreaticoduodenectomy for Pancreatic Adenocarcinoma. Southeastern Surgical Congress. Jacksonville, FL. February 2013 (Oral)
21. Mather A, Ross S, Vice M, Kurian T, **Toomey P**, Luberic K, Choung E, Rosemurgy A. Margin Status Impacts Survival after Pancreaticoduodenectomy but Negative Margins Should Not Be Pursued. Southeastern Surgical Congress. Jacksonville, FL. February 2013 (Oral)
22. **Toomey P**, Ross S, Paul H, Luberic K, Co F, Rosemurgy A. Laparo-Endoscopic Single Site (LESS) Nissen Fundoplication Jacksonville, FL. February 2013 (Oral - Movie)
23. **Toomey P**, Martin L, Mackay A, Sarnaik A, Pilon-Thomas S. Intralesional Injection of Melanoma with Rose Bengal Induces Regression of Untreated Synchronous Melanoma In a Murine Model. The Frederick A. Collier Surgical Society. Annapolis, MD. September 2012. (Oral)
24. **Toomey P**, Martin L, Mackay A, Sarnaik A, Pilon-Thomas S. Intralesional Injection of Melanoma with Rose Bengal Induces Regression of Untreated Synchronous Melanoma In a Murine Model. 65<sup>th</sup> Annual Cancer Symposium, SSO. Orlando, FL. Mar 2012. (Poster)
25. **Toomey P**, Golkar F, Luberic K, Hernandez J, Donn N, Marcadis A, Vice M, Okpaleke C, Ross S, Alsina A, Rosemurgy A. Outcomes after TIPS: A "Bridge" To Nowhere. AHBPA. Miami Beach, FL. March 2011. (Oral)
26. Golkar F, Clark W, Luberic K, **Toomey P**, Marcadis A, Okpaleke C, Paul H, Donn N, Hernandez J, Ross S, Rosemurgy A. Uncovering the Truth About Covered TIPS Stents: Equivalent Patency Rates When Compared to Bare Metal Stents. AHBPA. Miami Beach, FL. March 2011. (Poster)

27. **Toomey P**, Hernandez J, Dahal S, Morton C, Ross S, Barry L, Roddenbery A, Rosemurgy A. Tumor Location Does Not Impact Survival After Resection for Pancreatic Adenocarcinoma Despite Larger Tumors in the Tail. Society of Surgical Oncology 2010 Annual Meeting, St Louis, MO, March 3-7, 2010. (Poster)
28. Hernandez J, Morton C, Lorch S, **Toomey P**, Mullinax J, Cooper J, Bowers C, Ross S, Rosemurgy A. Site of Recurrence after Pancreatectomy for Pancreatic Adenocarcinoma is not Influenced by Margin Status or Adjuvant Chemoradiotherapy but Can Impact Survival. Phoenix, AR, March, 2009. (Poster)
29. **Toomey P**, Hernandez J, Morton C, Duce L, Farrior T, Villadolid D, Ross S, Rosemurgy A. Resection of portovenous structures to obtain microscopically negative margins during pancreaticoduodenectomy for pancreatic adenocarcinoma is worthwhile. Southeastern Surgical Congress. Atlanta, GA. February, 2009. (Oral)
30. **Toomey P**, Morton C, Luberic K, Abunamous Y, Gonzalez J, Goldin S, Ross S, Rosemurgy R. Late Results After Laparoscopic Fundoplication Denote Durable Symptom Relief of GERD. Southeastern Surgical Congress. Atlanta, GA. February, 2009. (Poster)
31. Hernandez J, Villadolid D, **Toomey P**, Mullinax J, Clark W, Tomlinson L, Goldin S, Rosemurgy A. Survival after Pancreaticoduodenectomy is Not Improved by Extending Resections to Achieve Negative Margins. AHBPA. Fort Lauderdale, FL. March 2008. (Oral)
32. **Toomey P**, Mullinax J, Villadolid D, Hernandez J, Drummond K, Vohra N, Rosemurgy A. Survival After Pancreaticoduodenectomy For Pancreatic Adenocarcinoma Is Equivalent, Independent of Stage and Staging Schemes. USF Research Day, Tampa, FL, Feb 22, 2008. (Poster)
33. Ross S, Cowgill S, Mullinax J, Kraemer E, Al-Saadi S, Villadolid D, **Toomey P**. Giant Hiatal Hernia Does Not Adversely Impact Outcome After Laparoscopic Nissen Fundoplication For GERD. Society of American Gastrointestinal and Endoscopic Surgeons Annual Scientific Session, Las Vegas, NV April 18-22, 2007. (Poster)
34. Rosemurgy A, Villadolid D, **Toomey P**, Al-Saadi S, Cooper J, Cowgill S, Rakita S. Difficulty Of Laparoscopic Heller Myotomy Is Not Determined By Preoperative Therapy And Neither Difficulty of Myotomy Nor Preoperative Therapy Determine Long-Term Outcome. 15<sup>th</sup> International Congress and Endo Expo Society of Laparoendoscopic Surgeons Annual Meeting, Boston, MA, September 6-9, 2006. (Poster)
35. Cowgill S, Al-Saadi S, Villadolid D, Thomas K, **Toomey P**, Thometz DP, Rosemurgy AS. Laparoscopic Reduction of Gastric Volvulus and Paraesophageal Hernia with Hiatal Reconstruction and Nissen Fundoplication. Southeastern Surgical Congress 2006 Annual Meeting. (Poster)
36. Rosemurgy A, Thomas K, **Toomey P**, Thometz D, Villadolid D, Rakita S, Cowgill S. Laparoscopic Reduction of Gastric Volvulus and Paraesophageal Hernia with Hiatal Reconstruction and Nissen Fundoplication. 2006 American College of Surgeons 92<sup>nd</sup> Annual Clinical Congress, Chicago, Illinois, October 8-12, 2006. (Oral - Movie)
37. Rosemurgy A, Villadolid D, **Toomey P**, Al-Saadi S, Cooper J, Cowgill S, Rakita S. Difficulty Of Laparoscopic Heller Myotomy Is Not Determined By Preoperative Therapy And Neither Difficulty of Myotomy Nor Preoperative Therapy Determine Long-Term Outcome. 15<sup>th</sup> International Congress and Endo Expo Society of Laparoendoscopic Surgeons Annual Meeting. Boston, MA, September 6-9, 2006. JSLs 2006. (Poster)

### **Acknowledgements**

1. Palmeri M, Sharma A, Bouchard R, Nightingale R, Nightingale K. A Finite-Element Method Model of Soft Tissue Response to Impulsive Acoustic Radiation Force. IEEE TUFFC. Oct, 2005 Vol 52 No 10.
2. Palmeri M, Trahey G, Laursen T, Setton L, Bentley R, Nightingale K. Imaging the Mechanical Properties of Tissue with Ultrasound: An Investigation of the Response of Soft Tissue to Acoustic Radiation Force. Dissertation. Duke University. 2005.

### **Residency Awards:**

2015 John E. Turlich Award for Outstanding Teaching Resident  
Presented by: USF Morsani College of Medicine Class of 2016

2015 Barness Behnke Gold Humanism Honor Society Induction  
Sponsor: Arnold P Gold Foundation

2014 Humanism and Excellence in Teaching Award  
Sponsor: Arnold P. Gold Foundation

2013 SLS Multidisciplinary Fellowship Summit, Celebration, FL  
Sponsor: Society of Laparoendoscopic Surgeons (SLS) Scholarship

2011 Outstanding Third Year Resident Award  
Sponsor: Tampa Bay Surgical Society

**Medical School Awards:**

2008 Award for Outstanding Medical Research  
USF Research Day, Feb 22, 2008  
Sponsor: Watson Clinic

Outstanding 3<sup>rd</sup> year Surgical Student Award 2006-2007  
Sponsor: Bailey Family Foundation

**Society Memberships:**

Society of Laparoendoscopic Surgeons (SLS) 2013  
Society for Surgery of the Alimentary Tract (SSAT) 2013  
Americas Hepato-Pancreato-Biliary Association (AHPBA) 2013  
Southeastern Surgical Congress (SESC) 2012  
Society of Surgical Oncology (SSO) 2012  
American Association For Cancer Research (AACR) 2011  
American College of Surgeons (ACS) 2009

**Leadership Positions:**

Administrative Chief Resident 2014-2015  
University of South Florida, Department of Surgery

Vice President of Information and Technology, 2007-2008  
University of South Florida, College of Medicine, Class of 2008

Condo Association President 2006-2007  
2807 Estrella Street Condo Association

Surgery Clerkship Liaison, 2006  
University of South Florida, College of Medicine

Website Designer/Member, 2002-2004  
Phi Sigma Pi Honor Fraternity

**Training Activities:**

2014 Minimally Invasive Esophagectomy Course; Sponsor: Ethicon  
Florida Hospital Nicholson Center  
Celebration, FL

2014 ERCP, EUS and ESD Olympus Master Class – Advanced Fellows Course  
Institute for Training & Technology  
Chicago, IL

2014 Advanced Trauma Operative Management (ATOM) Course  
Center for Advanced Medical Learning and Simulation (CAMLS)  
Tampa, FL

2013 Society of Laparoendoscopic Surgeons Multidisciplinary Fellowship Summit  
Florida Hospital Nicholson Center  
Celebration, FL

2013 Intuitive Da Vinci Surgical Systems Robotic Course  
Center for Advanced Medical Learning and Simulation (CAMLS)  
Tampa, FL

2013 Advanced Surgical Skills for Exposure in Trauma (ASSET) Course

Center for Advanced Medical Learning and Simulation (CAMLS)  
Tampa, FL

2013 Advanced Trauma Life Support Recertification  
Center for Advanced Medical Learning and Simulation (CAMLS)  
Tampa, FL

2013 Advanced Life Support Recertification (expires 6/10/2015)  
Tampa, FL

2013 Basic Life Support Recertification (expires 6/10/2015)  
Tampa, FL