

Matthew Drake Spann, M.D., MMHC, FACS, FASMBS

Assistant Professor of Surgery
Director, Metabolic and Bariatric Surgery
Medical Director, Vanderbilt Weight Loss Clinics
Vanderbilt University Medical Center
1161 Medical Center Drive
MCN D-5203
Nashville, Tennessee 37233-2577
Phone: (615) 322-7555

EDUCATION:

2000 – 2004 Bachelor of Science in Biology, Samford University, Birmingham, Alabama
2004 – 2008 Doctor of Medicine. University of Alabama School of Medicine, Birmingham, Alabama
2017 – 2018 Master of Management in Healthcare. Owen Graduate School of Management at Vanderbilt University, Nashville, Tennessee

Surgical Training:

2008 – 2013 General Surgery Residency Program, University of Alabama at Birmingham. Birmingham, Alabama
2013 – 2014 Minimally Invasive and Bariatric Surgery Fellowship, Vanderbilt University. Nashville, Tennessee.

CERTIFICATIONS:

- Diplomate, American Board of Surgery
- Fellow, American College of Surgeons
- Certificate of Completion of the Advanced Laparoscopic Fellowship. The Fellowship Council
- Certificate of Acknowledgement of Satisfactory Training in Metabolic and Bariatric Surgery. American Society of Metabolic and Bariatric Surgery
- Fundamentals of Laparoscopic Surgery
- Fundamentals of Endoscopic Surgery

PROFESSIONAL ORGANIZATIONS:

2008 - Present American College of Surgeons
2011 - Present Society of American Gastrointestinal and Endoscopic Surgeons
2012 - Present American Society for Metabolic and Bariatric Surgery
2014 - Present H. William Scott, Jr. Society
2018 - 2020 Tennessee Chapter of the American Society of Metabolic and Bariatric Surgery

PROFESSIONAL ACTIVITIES:

INTRAMURAL

- 2016 - Present **Surgical Education Leadership Committee:** A group of core faculty members that serve alongside of the Program Director to assist and direct the General Surgery Residency Program.
- 2017 - Present **Resident Resilience Committee:** Committee members undergo training to help aid residents and other faculty members who are struggling through difficult times and burnout.

EXTRAMURAL

Regional and National Committee Appointments and Elected Offices

American Academy of Sleep Medicine

2018 - Present Task Force Member, Guidelines for the Surgical Treatment of Sleep Apnea.

American Society of Metabolic and Bariatric Surgery

2018 - Present Committee Member

Society of American Gastrointestinal and Endoscopic Surgeons

2015 - 2016 Resident Scholars Program.

2016 - Present Fundamentals of Endoscopic Surgery Exam Proctor:

Tennessee Chapter of the American College of Surgeons

2018 - Present Counselor

Tennessee Chapter of the American Society of Metabolic and Bariatric Surgery

2018 - 2020 Vice President

Ad Hoc Reviewer

- 2019 - 2020 Surgery for Obesity and Related Diseases
2019 - 2020 Journal of Surgical Research

Invited Lectures

1. **A Surgeons Role in the Treatment of Obesity.** Surgery Grand Rounds. Augusta University Department of Surgery. December 5, 2016. Augusta, GA. Lecturer.
2. **The Bariatric Alphabet: Weight Loss Options and Patient Expectations.** Vanderbilt Internal Medicine Grand Rounds. October 10, 2018. Lecturer.

3. **Enhanced Recovery After Surgery: Program Blueprint and Lessons Learned.** Surgery and Anesthesia Grand Rounds and Visiting Professor. Tulane University School of Medicine. October 12, 2018. New Orleans, LA. Lecturer.
4. **Adolescent Obesity: Where Does the Surgeon Fit?** Vanderbilt Pediatric Surgery Grand Rounds. January 9, 2019. Lecturer.
5. **Weight Loss in Tennessee – Where do we begin?** St. Thomas Dekalb Hospital Medical Staff Grand Rounds. March 4, 2019. Lecturer.

GRANTS AND CLINICAL TRIALS:

1. October 2015 – November 2016: Co-Investigator, Obalon Balloon System Clinical Investigation, The Six Month Adjunctive Weight Reduction Therapy (SMART) Trial. FDA Pivotal Trial.
2. October 2015 – October 2017: Co-Investigator, Endoscopic Treatment for Weight Reduction in Patients with Obesity Using the TransPyloric Shuttle® System: A Multicenter, Prospective, Randomized, Double-Blind, Sham-Controlled, Parallel-Design Study (ENDObesity® II Study). FDA Pivotal Trial.
3. August 2019 – December 2019: Primary Investigator, A Videographic Study to Evaluate the Impact of a Pulsed Firing Technique on Staple Line Interventions in Laparoscopic Sleeve Gastrectomy (BEAM Trial). Sponsor: Ethicon Endosurgery.

PUBLICATIONS AND PRESENTATIONS:

Peer Reviewed Publications

1. **Spann MD**, McGwin G Jr, Kerby JD, et al. Characteristics of burn patients injured in methamphetamine laboratory explosions. *J Burn Care Res.* 2006;27(4):496-501. doi:10.1097/01.BCR.0000226056.81279.C9. PMID 16819354.
2. Wattacheril J, Rose K, Hill S, Lanciault C, Murray C, Washington K, Williams B, English W, **Spann MD**, Abumrad N, Clements R, Flynn C. Non-alcoholic fatty liver disease phosphoproteomics: A functional piece of the precision puzzle. *Hepato Res.* 2017;47(13):1469-1483. doi:10.1111/hepr.12885. PMID 28258704.
3. **Spann MD**, Idrees K. Management of duodenal carcinoid tumors in the setting of morbid obesity. *Surg Obes Relat Dis.* 2017;13(9):1635-1637. doi:10.1016/j.soard.2017.05.018. PMID 28624533.

4. **Spann MD**, Aher CV, English WJ, Williams DB. Endoscopic management of erosion after banded bariatric procedures. *Surg Obes Relat Dis*. 2017;13(11):1875-1879. doi:10.1016/j.soard.2017.07.025. PMID 28870760.
5. King AB, **Spann MD**, Jablonski P, Wanderer JP, Sandberg WS, McEvoy MD. An enhanced recovery program for bariatric surgical patients significantly reduces perioperative opioid consumption and postoperative nausea. *Surg Obes Relat Dis*. 2018;14(6):849-856. doi:10.1016/j.soard.2018.02.010. PMID 29555468.
6. Sullivan S, Swain J, Woodman G, Edmundowicz SA, Hassanein T, Shayani V, Fang JC, Noar M, George E, English WJ, Tariq N, Larsen M, Jonnalagadda SS, Riff DS, Ponce J, Early D, Volkmann E, Ibele AR, **Spann MD**, Krishnan K, Bucobo JC, Pryor AD. Randomized Sham-Controlled Trial of the 6-Month Swallowable Gas-Filled Intra-gastric Balloon System for Weight Loss. *Surg Obes Relat Dis*. 2018;14(12):1876-1889. doi:10.1016/j.soard.2018.09.486. PMID 305455596.
7. **Spann MD**, Wang E, Hurt SE, Koch RL, Gupta R, McEvoy MD. Early improvement in patient reported disability after bariatric surgery. *Surg Obes Relat Dis*. 2019;15(10):1800-1804. doi:10.1016/j.soard.2019.08.004. PMID:31624043.
8. **Spann MD**, Harrison NJ, Bolduc AR, Aher CV, English WJ, Williams DB, Hawkins AT. Efficacy and Safety of Recurrent Paraesophageal Hernia Repair with Roux-en-Y Gastric Bypass. *Am Surg*. 2020;86(3):250-255. PMID: 32223806.
9. English WJ, **Spann MD**, Aher CV, Williams DB. Cardiovascular risk reduction following metabolic and bariatric surgery. *Ann Transl Med*. 2020 Mar;8(Suppl 1):S12. doi: 10.21037/atm.2020.01.88. PMID: 32309416; PMCID: PMC7154333.
10. Matevish LE, Hawkins AT, Bethurum AJ, Aher CV, English WJ, Williams DB, **Spann MD**. Change in Total Body Water as a Metric for Predicting Need for Outpatient Intravenous Fluids in Postoperative Bariatric Patients. *Am Surg*. 2020 Aug 29:3134820945271. doi: 10.1177/0003134820945271. Epub ahead of print. PMID: 32862663.

Book Chapters

1. **Spann MD**, Williams DB. Failure to Rescue. *Bariatric Surgery Complications*. R Blackstone ed. Springer Science. 2017. Chapter 4. Pages 45-57.
2. **Spann MD** and RH Clements. Management of Complications of Gastric Bypass and Repair. In: *Mastery of Surgery*, 7th Edition. J Fischer ed. Wolters Kluwer Health. Chapter 101. Pages 1250-1258.

Scientific Presentations

1. **Spann MD**, Williams DB. Laparoscopic Repair of Internal Hernia after Antecolic Roux-en-Y Gastric Bypass. Video presentation at the American College of Surgeons Clinical Congress. October 29, 2014. San Francisco, CA.
2. **Spann MD**, Axt JR, Williams, DB. Laparoscopic Management of Retrograde Jejunal Intussusception after Roux-en-Y Gastric Bypass. Video presentation at the American College of Surgeons Clinical Congress. October 30, 2014. San Francisco, CA.
3. McEvoy MD, King AB, **Spann MD**, Tiwari V, Sandberg WS, Wanderer JP. Effect of Implementing an Enhanced Recovery After Surgery (ERAS) Pathway via Perioperative Consult Service for Bariatric Surgical Patients. Podium presentation at the American Society of Anesthesiology 2015 National Meeting. October 25, 2015. San Diego, CA.
4. **Spann MD**, Williams DB, Clements RH. Endoscopic management of Erosion after Banded Bariatric Procedures. Video presentation at Obesity Week 2015, November 6, 2015. Los Angeles, CA.
5. Aher CV, **Spann MD**, Clements RH, English WJ, Williams DB. The effect of immunosuppressive medications on early outcomes in bariatric surgery. Poster Presentation at The Society of American Gastrointestinal and Endoscopic Surgeons 2016 Annual Meeting. March 16, 2016. Boston, MA.
6. **Spann MD**, Feurer ID, Clements RH, Karp SJ. Laparoscopic gastric bypass is associated with improved renal function in patients with stage III chronic kidney disease. Poster of Distinction podium presentation. Obesity Week 2016. November 3, 2016. New Orleans, LA.
7. Levy SM, **Spann MD**, Aher CV, English WJ, Williams DB. Laparoscopic sleeve gastrectomy: short term outcomes with and without staple line reinforcement. Poster presentation. The Society of American Gastrointestinal and Endoscopic Surgeons 2017 Annual Meeting. March 22, 2017. Houston, TX.
8. Ramanujan BA, Wanderer JP, Jablonski PM, King AB, **Spann MD**, Williams DB, English WJ, McEvoy MD. Dynamic risk profiling for postoperative nausea and vomiting after implementation of an enhanced recovery pathway for surgical weight loss. Poster presentation at the 2017 Annual Congress of Enhanced Recovery and Perioperative Medicine. April 27, 2017. Washington, DC.
9. Aher CA, **Spann MD**, Williams DB, Levy SM, English WJ. Targeted interventions decrease readmission rates after bariatric surgery at an academic institution. Podium presentation at The American College of Surgeons Quality and Safety Conference. July 21, 2017. New York, NY.

10. **Spann MD**, Bolduc AR, English WJ, Williams DB, Aher CV. Efficacy and safety of Roux-en-Y gastric bypass with recurrent paraesophageal hernia repair. Quick Shot Podium presentation at the Southeastern Surgical 2018 Annual Meeting. February 13, 2018. Tampa, FL.
11. Bolduc AR, **Spann MD**, Williams DB, English WJ, Aher CV. Revision of sleeve to bypass; an effective procedure worth the fight. Poster presentation at the Society of American Gastrointestinal and Endoscopic Surgeons 16th World Congress of Endoscopic Surgery. April 13, 2018. Seattle, WA
12. Bolduc AR, Albaugh VL, **Spann MD**, Aher CV, English WJ, Williams DB. Total small bowel length varies widely in patients undergoing bariatric surgery. Podium presentation at the American Society of Metabolic and Bariatric Surgery Obesity Weekend. June 15, 2018. New York, NY.
13. Kinser KJ, Blalock C, Aher CV, **Spann MD**. Treatment containing cholecalciferol is superior to ergocalciferol alone in treating patients with vitamin d deficiency post bariatric surgery. Poster presentation at Obesity Week 2018. November 11, 2018. Nashville, TN
14. Wang E, **Spann MD**, Hurt S, Koch R, Wanderer JP, Neema S, Sandberg WS, McEvoy MD. Early improvement in patient reported disability following bariatric surgery. Poster presentation at Obesity Week 2018. November 11, 2018. Nashville, TN
15. Matevish LE, Hawkins AT, Bethurum AJ, Aher CV, English WJ, Williams DB, **Spann MD**. Change in Total Body Water as a Metric for Predicting Need for Outpatient Intravenous Fluids in Post-operative Bariatric Patients. Podium presentation at Southeastern Surgical Congress 2020 Annual Meeting. February 11, 2020. New Orleans, LA.
16. **Spann MD**, Williams DB, English WJ, Aher CV. A standardized approach to perioperative thromboembolic chemoprophylaxis surrounding bariatric and metabolic surgery. Accepted for poster presentation at The American College of Surgeons Clinical Congress. October 3, 2020.
17. Aher CV, English WJ, Williams DB, **Spann MD**. We should be home by now: factors predictive of prolonged length of stay after bariatric surgery. Accepted for poster presentation at The American College of Surgeons Clinical Congress. October 3, 2020.

Invited Presentations – Regional and National

1. **Antireflux Procedures: Patient Preparation and Technical Considerations.** Invited presentation at the Society of American Gastrointestinal and Endoscopic Surgeons Resident Education Course. November 6, 2014. Cincinnati, OH.

2. **Prevention and Treatment of Marginal Ulcers after Roux-en-Y Gastric Bypass.** Invited presentation during the panel session Bariatric Surgery: Preventing Complications at the 2015 American College of Surgeons Clinical Congress. October 6, 2015. Chicago, IL.
3. **The Surgical Treatment of Obesity.** Invited presentation at the Vanderbilt Gastroenterology, Hepatology, and Nutrition Regional Update. September 23, 2016. Nashville, TN.
4. **Endoluminal Bariatrics: Balloons, Liners, Gadgets Galore!** Co-Moderator. 2017 American College of Surgeons Clinical Congress. October 25, 2017. San Diego, CA.
5. **Racial Disparities in Bariatric Surgeon.** Discussant of podium presentation. 2017 American College of Surgeons Clinical Congress. October 26, 2017. San Diego, CA.
6. **Management of Internal Hernia after Gastric Bypass.** Invited presentation at the American College of Surgeons Clinical Congress Video Session. October 23, 2018. Boston, MA.
7. **Here We Go Again: SAGES 2020 Scientific Session.** Moderator. 2020 Society of Gastrointestinal and Endoscopic Surgery Annual Meeting. August 11-13, 2020. Virtual Meeting.

Invited Presentations – Institutional

1. **Surgical Weight Loss: Obstetric and Gynecologic Considerations.** Presentation at Ob/Gyn didactic lecture series. November 20, 2015. Nashville, TN.
2. **Competency Based Assessment and Milestones.** Online Seminar. Vanderbilt University School of Medicine. January 7, 2016.
3. **Bariatric Surgery: A Patient’s Perspective.** Presentation at the Vanderbilt Program for Molecular Medicine’s Bench to Bedside Symposium. January 13, 2016. Nashville, TN.
4. **Foundations of Health Care Delivery Faculty Development.** Seminar. Vanderbilt University School of Medicine. September 29, 2016.
5. **Bariatric Emergencies: A Surgeons Perspective.** Presentation at Vanderbilt Acute Care Surgery Fellows Conference. March 14, 2018. Nashville, TN.
6. **Bariatric Emergencies: An Emergency Medicine Perspective.** Presentation at Vanderbilt Emergency Medicine Resident Teaching Conference. June 19, 2018. Nashville, TN.

7. **The Skinny on Weight Loss – Tips and Tools to Battle Healthcare’s Greatest Threat.** Vanderbilt Williamson County Educational Conference. April 4, 2019.
8. **Bariatric Emergencies 2019 – Updates for Acute Care Surgeons.** Vanderbilt Acute Care Surgery Fellows Conference. September 11, 2019.