

## **NATHANIEL STOIKES, M.D.**

### **Current Employment**

Baptist Memorial Hospital-Memphis, General Surgery Residency Program,  
Associate Program Director

University of Tennessee Health Science Center, Department of Surgery, Division  
of Minimally Invasive Surgery

### **Education:**

Undergraduate:

Knox College, Galesburg, Illinois; Biochemistry, 1997 – 2001

Medical School:

Rush Medical College, Chicago, Illinois; Doctor of Medicine, 2001 –  
2005

Residency/Internship:

University of Tennessee, Memphis, Tennessee; General Surgery  
Residency, 2005 – 2010

Residency:

University of Tennessee, Memphis, Tennessee; General Surgery  
Residency, 2005 – 2010

Surgical Fellowship:

Washington University School of Medicine, Barnes-Jewish Hospital, St.  
Louis, Missouri; Minimally Invasive Surgery Fellowship, 2010 – 2011

### **Honors/Awards:**

1<sup>st</sup> Place Tennessee Chapter of American College of Surgeons Committee on  
Trauma; Clinical Resident Paper Competition. “The routine use of  
prophylactic antibiotics for ICP monitor insertion does not reduce CNS  
infections and promotes resistant organisms. July 2006

Voted by resident peers as the outstanding teacher and role model for chief  
resident. 2009-2010

### **Committees:**

- Safe Cholecystectomy task force: SAGES
- University of Memphis, Biomedical Engineering Department Advisory  
Committee, 2015 – 2017
- Baptist Memorial Hospital-Memphis, Professional Practice Evaluation  
Review Committee

- Baptist Memorial Hospital- Memphis, Surgical Oversight Committee
- Americas Hernia Society, Membership Committee

**Board Certification: (Board Eligible)**

American Board of Surgery, November 2010

**Medical Licensure:**

Tennessee  
Mississippi  
Missouri

**Society Memberships:**

American College of Surgeons: Fellow  
The Society of American Gastrointestinal and Endoscopic Surgeons  
(SAGES), Member (2011 to present)  
American Hernia Society (2011 – present)

**University Appointments:**

2017-present Associate Professor of Surgery, University of Tennessee Health Science Center  
2014-present Adjunct Faculty, University of Memphis Biomedical Engineering Department  
2011 - 2016 Assistant Clinical Professor of Surgery, University of Tennessee Health Science Center

**Hospital Appointments:**

Baptist Memorial Hospital-Memphis; Memphis, TN  
Baptist Memorial Hospital- Collierville; Collierville, TN  
Methodist Extended Care Hospital; Memphis, TN  
Methodist Hospitals of Memphis; Memphis, TN

**Adjunct Faculty**

University of Memphis Biomedical Engineering Department

**Invited Lectures (National/International)**

March 7-10, 2012 “Ventral Hernia Repair” (Invited Faculty) SAGES 2012, San Diego, CA  
March 12-15, 2014 “Laparoscopic Hiatal Hernia Repair” American Hernia Society, Las Vegas, NV  
April 14-18, 2015 “Fixation in Inguinal Hernias: No need for tacks” SAGES 2015, Nashville, TN  
February 2-3, 2017 “Onlay Ventral Hernia Repair” “Evidence Based Fixation for Laparoscopic Ventral Hernia Repair” AWR Summit, Park City, UT  
March 31-22, 2017 “Prevention of Bile Duct Injury” SAGES 2017, Houston, TX

April 1-3, 2019                      “Difficult Gallbladder”  
Co-Chair “Hernia/Miscellaneous Potpourri”  
SAGES 2019, Baltimore, MD

**Grant Support:**

2012 – Present                      Lifebond, Hernia Research **\$81,000**  
2012 – Present                      Bard/Davol, Hernia Research **\$121,000**

**Medical Student Didactics**

2011- Present                      Teaches medical student lectures for every incoming group for educational purposes

**Publications:**

1. **Stoikes NF**, Dutton JM. The effect of endoscopic sinus surgery on symptoms of eustachian tube dysfunction. *Am J Rhinol.* 2005 Mar-Apr;19(2):199-202. PMID: 15921221.
2. Bardia A, **Stoikes N**, Wilkinson NW. Mediastinal pancreatic pseudocyst with acute airway obstruction. *J Gastrointest Surg.* 2006 Jan;10(1):146-50. doi: 10.1016/j.gassur.2005.05.009. PMID: 16368505.
3. **Stoikes NF**, Magnotti LJ, Hodges TM, Weinberg JA, Schroepel TJ, Savage SA, Fischer PE, Fabian TC, Croce MA. Impact of intracranial pressure monitor prophylaxis on central nervous system infections and bacterial multi-drug resistance. *Surg Infect (Larchmt).* 2008 Oct;9(5):503-8. doi: 10.1089/sur.2007.032. PMID: 18687046.
4. **Stoikes N**, Nezakatgoo N, Fischer P, Bahr M, Magnotti L. Salvage of inaccessible arteriovenous fistulas in obese patients: a review of 132 brachiocephalic fistulas. *Am Surg.* 2009 Aug;75(8):705-9; discussion 709. doi: 10.1177/000313480907500812. PMID: 19725294.
5. **Stoikes N**, Mangiante E, Voeller G. Laparoscopic repair of a man with massive bilateral femoral hernias. *Am Surg.* 2009 Dec;75(12):1189-92. PMID: 19999910.
6. **Stoikes, N**; Frisella, M; Brunt, LM. Laparoscopic splenectomy and splenic artery exclusion for multiple splenic artery aneurysms. *Journal of Laparoendoscopic and Advanced Surgical Techniques Part B Videoscopy* April 2011.
7. **Stoikes N**, Drapekin J, Kushnir V, Shaker A, Brunt LM, Gyawali CP. The value of multiple rapid swallows during preoperative esophageal manometry before laparoscopic antireflux surgery. *Surg Endosc.* 2012 Dec;26(12):3401-7. doi: 10.1007/s00464-012-2350-0. Epub 2012 May 31. PMID: 22648115; PMCID: PMC4098863.
8. Prasertvit S, **Stoikes N**. A rare case of ewing's sarcoma of the small intestine. *Am Surg.* 2013 Feb;79(2):E78-9. PMID: 23336641.
9. Paulus EM, Garrett HE Jr, Powell BS, **Stoikes NF**. Primary aortoduodenal fistula after radiotherapy. *Am Surg.* 2013 Apr;79(4):E158-9. PMID:

23574831.

10. **Stoikes N**, Quasebarth M, Brunt LM. Hybrid ventral hernia repair: technique and results. *Hernia*. 2013 Oct;17(5):627-32. doi: 10.1007/s10029-013-1092-9. Epub 2013 May 9. PMID: 23657859.
11. **Stoikes N**, Voeller GR. New developments in hernia repair: a 2013 update. *Surg Technol Int*. 2013 Sep;23:107-11. PMID: 23700182.
12. Shaker A, **Stoikes N**, Drapekin J, Kushnir V, Brunt LM, Gyawali CP. Multiple rapid swallow responses during esophageal high-resolution manometry reflect esophageal body peristaltic reserve. *Am J Gastroenterol*. 2013 Nov;108(11):1706-12. doi: 10.1038/ajg.2013.289. Epub 2013 Sep 10. PMID: 24019081; PMCID: PMC4091619.
13. **Stoikes N**, Sharpe J, Tasneem H, Roan E, Paulus E, Powell B, Webb D, Handorf C, Eckstein E, Fabian T, Voeller G. Biomechanical evaluation of fixation properties of fibrin glue for ventral incisional hernia repair. *Hernia*. 2015 Feb;19(1):161-6. doi: 10.1007/s10029-013-1163-y. Epub 2013 Sep 24. PMID: 24062143.
14. **Stoikes N**, Webb D, Powell B, Voeller G. Preliminary report of a sutureless onlay technique for incisional hernia repair using fibrin glue alone for mesh fixation. *Am Surg*. 2013 Nov;79(11):1177-80. PMID: 24165253.
15. Webb D, **Stoikes N**, Voeller G. Evolution of mesh fixation for hernia repair. *Surg Technol Int*. 2014 Nov;25:123-9. PMID: 25398127.
16. Ver Halen JP, **Stoikes N**, Webb D, Powell B, Voeller G. Comprehensive analysis of donor-site morbidity in abdominally based free flap reconstruction. *Plast Reconstr Surg*. 2015 Jan;135(1):226e-227e. doi: 10.1097/PRS.0000000000000816. PMID: 25539333.
17. Powell BS, Lytle N, **Stoikes N**, Webb D, Voeller G. Primary prevascular and retroperitoneal hernias: incidence of rare abdominal wall hernias. *Hernia*. 2015 Jun;19(3):513-6. doi: 10.1007/s10029-013-1207-3. Epub 2014 Jan 29. PMID: 24474033.
18. Watson JT, Webb DL, **Stoikes NF**, Voeller GR. Fibrin Sealant: A Review of the History, Biomechanics, and Current Applications for Prosthetic Fixation in Hernia Repair. *Surg Technol Int*. 2015 Nov;27:140-5. PMID: 26696538.
19. Shahan CP, **Stoikes NF**, Webb DL, Voeller GR. Sutureless onlay hernia repair: a review of 97 patients. *Surg Endosc*. 2016 Aug;30(8):3256-61. doi: 10.1007/s00464-015-4647-2. Epub 2015 Nov 5. PMID: 26541726.
20. Majors J, **Stoikes NF**, Nejati R, Deneve JL. Resection and Abdominal Wall Reconstruction of a Desmoid Tumor with Endometrioma Features. *Case Rep Surg*. 2016;2016:9453450. doi: 10.1155/2016/9453450. Epub 2016 May 10. PMID: 27247824; PMCID: PMC4877470.
21. Shahan CP, **Stoikes NN**, Roan E, Tatum J, Webb DL, Voeller GR. Short-term strength of non-penetrating mesh fixation: LifeMesh™, Tisseel™, and

- ProGrip™. *Surg Endosc.* 2017 Mar;31(3):1350-1353. doi: 10.1007/s00464-016-5119-z. Epub 2016 Jul 21. PMID: 27444826.
22. **Stoikes N**, Webb D, Voeller G. Robotic Hernia Repair. *Surg Technol Int.* 2016 Oct 26;29:119-122. PMID: 27728950.
  23. Haskins IN, Voeller GR, **Stoikes NF**, Webb DL, Chandler RG, Phillips S, Poulouse BK, Rosen MJ. Onlay with Adhesive Use Compared with Sublay Mesh Placement in Ventral Hernia Repair: Was Chevrel Right? An Americas Hernia Society Quality Collaborative Analysis. *J Am Coll Surg.* 2017 May;224(5):962-970. doi: 10.1016/j.jamcollsurg.2017.01.048. Epub 2017 Feb 2. PMID: 28161483.
  24. Brunt Michael, **Stoikes NFN**. Managing the difficult gallbladder. UpToDate Editor Jeffrey Marks. 2017 Aug 18.
  25. **Stoikes NFN**, Scott JR, Badhwar A, Deeken CR, Voeller GR. Characterization of host response, resorption, and strength properties, and performance in the presence of bacteria for fully absorbable biomaterials for soft tissue repair. *Hernia.* 2017 Oct;21(5):771-782. doi: 10.1007/s10029-017-1638-3. Epub 2017 Aug 16. PMID: 28815398; PMCID: PMC5608787.
  26. Shahan CP, **Stoikes NN**, Roan E, Tatum J, Webb DL, Voeller GR. Biomechanical and Histologic Evaluation of LifeMesh™: A Novel Self-Fixating Mesh Adhesive. *Am Surg.* 2018 Apr 1;84(4):520-525. PMID: 29712599.
  27. Poulouse BK, Harris DA, Phillips S, Janczyk RJ, Yunis J, Voeller GR, Carbonell A, Warren J, **Stoikes N**, Webb D, Hope WW, Rosen MJ; Americas Hernia Society Quality Collaborative. Reducing Early Readmissions after Ventral Hernia Repair with the Americas Hernia Society Quality Collaborative. *J Am Coll Surg.* 2018 May;226(5):814-824. doi: 10.1016/j.jamcollsurg.2018.01.048. Epub 2018 Feb 8. PMID: 29428233.
  28. **Stoikes N**, Roan E, Webb D, Voeller GR. The Problem of Seroma After Ventral Hernia Repair. *Surg Technol Int.* 2018 Jun 1;32:93-98. PMID: 29791714.
  29. Lake SP, **Stoikes NFN**, Badhwar A, Deeken CR. Contamination of hybrid hernia meshes compared to bioresorbable Phasix™ Mesh in a rabbit subcutaneous implant inoculation model. *Ann Med Surg (Lond).* 2019 Aug 13;46:12-16. doi: 10.1016/j.amsu.2019.08.004. PMID: 31467674; PMCID: PMC6710816.

**Presentations:**

1. Dutton, JM; **Stoikes, NF**. Eustachian tube dysfunction in chronic rhinosinusitis. Rush University, Department of Otolaryngology, Chicago. American Rhinologic Society 49th Annual Fall Scientific Meeting, Orlando, Florida. September 2003. Poster presentation.
3. **Stoikes, NF**; Magnotti, LJ; Hodges, TM; Weinberg, JA; Schroepfel, TJ; Savage, SA; Croce, MA; Fabian, TC. The routine use of prophylactic antibiotics for ICP monitor insertion does not reduce CNS infections and promotes resistant organisms. University of Tennessee Health Science Center, Memphis. Presented at the Tennessee Chapter of American College of Surgeons Committee on Trauma Resident Competition. July 2006.
4. **Stoikes, NF**; Magnotti, LJ; Hodges, TM; Weinberg, JA; Schroepfel, TJ; Savage, SA; Croce, MA; Fabian, TC. Reduction in CNS infections and increased multi-drug resistance: a consequence of ICP monitor prophylaxis. University of Tennessee Health Science Center, Memphis. 2006 Region IV Committee on Trauma Paper Competition, Miller School of Medicine, University of Miami, Florida. Nov 2006.
5. **Stoikes, NF**; Magnotti, LJ; Hodges, TM; Weinberg, JA; Schroepfel, TJ; Savage, SA; Croce, MA; Fabian, TC. Impact of ICP monitor prophylaxis on CNS infections and multi-drug resistance. University of Tennessee Health Science Center, Memphis. Presented at the 27th Annual Meeting of the Surgical Infection Society, Toronto, Ontario, Canada. April 2007.
6. **Stoikes, NF**; Bahr, M; Fischer, P; Nezakatgoo, N. Salvage of inaccessible arteriovenous fistulas in obese patients: a review of 132 brachiocephalic fistulas. University of Tennessee Health Science Center, Memphis. Presented at the Tennessee Chapter of American College of Surgeons Clinical Science Resident Paper Competition. May 2008.
7. **Stoikes, NF**; Nezakatgoo, N; Fischer, P; Bahr, M; Magnotti, L. Salvage of inaccessible arteriovenous fistulas in obese patients: a review of 132 brachiocephalic fistulas. University of Tennessee Health Science Center, Memphis. Presented at the Southeastern Surgical Congress Annual Scientific Meeting as a podium paper, Atlanta, GA, Feb. 2009.
8. **Stoikes, NF**; Chumfong, I; Brunt, LM. Hybrid open/laparoscopic repair and mesh fixation for difficult incisional hernias. Poster presentation for The American Hernia Society for 2011 meeting San Fransico, CA.
9. **Stoikes, NF**; Quasebarth, M; Matthews, B; Frisella, M; Brunt, LM. The natural history of anatomic failure after paraesophageal hernia repair. Oral presentation SAGES 2011 Meeting San Antonio, TX.

10. Webb, DL; **Stoikes, NF**; Powell, BS; Voeller, GR. Esophageal balloon – assisted laparoscopic heller myotomy for achalasia. Video Session for solid organ and foregut. SAGES 2012; San Diego, CA.
11. **Stoikes, NF**; Drapekin J, Shaker A, Kushnir V, Brunt LM, Gyawali CP. Motor response to multiple rapid swallows (MRS) can predict dysphagia in patients scheduled for laparoscopic antireflux surgery. Foregut Scientific Session. SAGES 2012. San Diego, CA.
12. **Stoikes, NF**; Webb, DL; Powell, BS; Voeller, G. Modified Chevrel Technique for Incisional Hernia Repair Using Fibrin Glue Alone for Mesh Fixation. Poster American Hernia Society, 2012. New York, NY.
13. Webb, DL; **Stoikes, NF**; Gagne, D; Scott, J; Voeller, GR. Contracture and Histological Properties of a Fully Absorbable Material (PHASIX™-Poly-4-Hydroxybutyrate) in a Rat Model of Hernia Repair. Poster. American Hernia Society, 2013. Orlando, FL.
14. **Stoikes, NF**; Sharpe, J; Tasneem, H; Paulus, E; Roan, E; Powell, BS; Webb, DL; Eckstein, E; Fabian, TC; Voeller, GR. Biomechanical Evaluation of Fixation Properties of Fibrin Glue for Ventral Incisional Hernia Repair. American Hernia Society, 2013, Orlando, FL.
15. Webb, DL; **Stoikes, NF**; Powell, BS; Voeller, GR. Esophageal Balloon Assisted Laparoscopic Heller Myotomy for Achalasia. SAGES, 2012. San Diego, CA.
16. Nelson, JS; Sharpe, JP; **Stoikes, NF**; Webb, DL; Powell, BS; Voeller, GR; Woodman, G. Laparoscopic Sleeve Gastrectomy: A Community Surgeon’s Initial Experience, Technique and Outcomes. SAGES, 2013. Baltimore, MD.
17. **Stoikes, NF**; Webb, DL; Powell, BS; Voeller, GR. Modified Chervrel Technique for Incisional Hernia Repair Using Fibrin Glue Alone for Mesh Fixation. American Hernia Society, 2012. New York, NY.
18. Webb, DL; **Stoikes, NF**; et al. Contracture and Histological Properties of a Fully Absorbable Material (PHASIX) in a Rat Model of Hernia Repair. American Hernia Society, 2013. Orlando, FL.
19. **Stoikes, NF**. Laparoscopic Hiatal Hernia Repair. American Hernia Society, 2014. Las Vegas, NV.
20. **Stoikes, NF**. “Surgical Techniques Through Video.” UTHSC Department of General Surgery Grand Rounds. Memphis, TN. September 2014.
21. **Stoikes, NF** and Shahan, C. Sutureless Fixation of Onlay Ventral Hernia Repair: A Review of 97 Patients. SAGES, 2015. Nashville, TN.
22. **Stoikes, NF**; Webb, DL; Voeller, GR. Faculty for AHS course- live onlay ventral hernia repair surgery with Cleveland Clinic. August 2015.
23. Guy R. Voeller, MD; David Webb, MD; **Nathaniel Stoikes, MD**. “Laparoscopic Epiphrenic Diverticulectomy with Heller Myotomy”. American College of Surgeons Clinical Congress 2016 Video Session. Washington, DC. October 2016.

#### **Research Activities:**

**Lifebond:** research grant for hernia

Established basic science animal lab in 2012 for hernia research. Currently evaluating mesh fixation technologies.

Advisor in 2014 for Biomedical Engineering Herff College of Engineering, University of Memphis, Memphis Surgical Solutions device for recycled CO<sub>2</sub>.

### **Clinical Trials:**

CR Bard                      Multicenter Trial of Phasix in Ventral and Incisional Hernia Repair

Intuitive Surgical, Inc.    Multicenter study to evaluate and compare the clinical outcomes, pain, and patient quality of life after open and laparoscopic incisional and inguinal hernia repair

### **Book Chapters:**

1. The SAGES MANUAL. Volume 1 Basic Laparoscopy and Endoscopy Soper, Nathaniel J.; Scott-Conner, Carol E.H. (Eds.) 3rd ed., 2012, 645 p. 228 illus., 62 in color. Chapter 32: Laparoscopic Inguinal Hernia Repair: Transabdominal Preperitoneal (TAPP) and Totally Extraperitoneal (TEP) **Nathaniel Stoikes** and L. Michael Brunt.
2. The SAGES MANUAL of Hernia Repair. Chapter 16: Athletic Groin Pain and Sports Hernia. 2013, pp. 181-193. **Nathaniel Stoikes** and L. Michael Brunt.
3. **Stoikes, NF**; Voeller, GR. Laparoscopic Ventral Hernia Repair. Abdominal Wall Reconstruction. 2013.
4. **Stoikes, N**, Webb D, Voeller GR. Chapter 32: Chronic Groin Pain: Mesh or No Mesh. Contributor to The SAGES Manual of Groin Pain. Editors Brian P. Jacob, David C. Chen, Bruce Ramshaw, Shirin Towfigh, Springer 2016.
5. **Stoikes, N**, Webb D, Voeller GR. Chapter 11: Onlay Ventral Hernia Repair. Contributor to Hernia Surgery Current Principles. Editor Yuri W. Novusky, Springer 2016.
6. Webb DL, **Stoikes, NF**, Voeller, GR. Chapter 8: Open Ventral Hernia Repair with Onlay Mesh. Contributors to Atlas of Abdominal Wall Reconstruction, Second Edition. Editor Michael J. Rosen, Elsevier 2016.
7. **Stoikes, NF**, Shahan CP, Webb D, Voeller G. Chapter 29: Onlay Ventral Hernia Repair. Contributors to Textbook of Hernia. Editors W.W. Hope et al, Springer April 2017.
8. **Stoikes NF**, Webb DL, Voeller GR. Chapter 12: Fixation in Laparoscopic Inguinal Hernia Repair. Contributors to Surgical Principles in Inguinal Hernia Repair. Editors Melissa LaPinska and Jeffrey Blatnik, Springer 2018.