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**Place of Birth:** Illinois, United States

### **Education**

<b>2009-2013</b>	MD	Medicine	Rush Medical College
<b>2004-2008</b>	BS	Molecular & Cellular Biology, Minor in Chemistry	University of Illinois, Urbana- Champaign, IL

### **Postdoctoral Training**

<b>2013 – June 2019</b>	Resident	General Surgery	University of Vermont Medical Center
<b>July 2019- July 2020</b>	Fellow	Comprehensive Endocrine Surgery	Harvard (Brigham and Women’s Hospital, Massachusetts General Hospital)

### **Faculty Academic Appointments**

<b>2020-</b>	Assistant Professor	Surgery, Surgical Oncology	Rush University Medical Center
<b>2019-2020</b>	Clinical Instructor	Surgery	Harvard Medical School
<b>2013-2019</b>	Clinical Instructor	Surgery	University of Vermont Larner COM

### **Committee Service**

2019-2020	Association for Academic Surgery (AAS) Committee on Academic Advancement	Candidate Member
2017	Resident Quality Council, University of Vermont Medical Center	Resident Representative
2017-2019	TWIS Quiz Development Committee of SCORE	Surgery Resident Representative
2016-2017	Graduate Medical Education Residency Committee	Surgery Resident Representative
2012-2013	American Medical Students Association (AMSA) National Pharmfree Campaign	Steering Committee Member
2010-2011	American Medical Students Association (AMSA)	Treasurer
2010-2011	Health Disparities Task Force	Education Chair
2010-2011	Rush Faculty & Missions Outreach Charity	Steering Committee Member

### **Professional Societies**

2019-	American Thyroid Association (ATA)	Member
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2018-	American Association of Endocrine Surgeons (AAES)	Candidate Member
2016-	Association of Academic Surgeons	Candidate Member
2016-	Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)	Candidate Member
2013-	American College of Surgeons	Resident Member

## **Report of Local Teaching and Training**

### **Teaching of Students in Courses**

2015-2019	Advance Trauma Life Support, Instructor	ATLS @University of Vermont Larner COM
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### **Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)**

2017	Item Writer for the Transplantation/Immunology SCORE Quiz	Published April 28 <sup>th</sup> 2017
2017	Item Writer for the Endocrine/Thyroid SCORE Quiz	Published 2017

### **Clinical Supervisory and Training Responsibilities**

2017-2018	Chief resident of education and didactics	University of Vermont Larner COM
2015 – 2017	Knot Tying, Suturing	University of Vermont Larner COM
2015 – 2017	Intern Boot Camp	University of Vermont Larner COM
2015 – 2017	How to prepare for clerkship	University of Vermont Larner COM

### **Laboratory and Other Research Supervisory and Training Responsibilities**

2015-2016	Research Fellow, University of Vermont Medical Center	Weiss Laboratory
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## **Report of Regional, National and International Invited Teaching and Presentations**

### **Invited Presentations and Courses**

#### **Regional**

2017	3rd Place Podium Presentation: “Materials Supply Utilization and Cost of Laparoscopic Cholecystectomy” VT Chapter of the American College of Surgeons, Burlington VT	
2017	“Patient Perceptions and Quality of Life After Colon and Rectal Surgery: What do Patients Really Want?” VT Chapter of the American College of Surgeons, Burlington VT	
2017	2 <sup>nd</sup> Place Podium Presentation: “Patient Perceptions and Quality of Life After Colon and Rectal Surgery: What do Patients Really Want?” New England Society of Colon and Rectal Surgeons Annual Meeting, York, ME	
2016	“Rheumatic Valvular Heart Disease in Africa, The TeamHeart Raison D’Etre”. Oral Presentation, <i>Vermont Chapter of the American College of Surgeons Spring Meeting</i>	
2014	“Laparoscopic Lavage for Acute Perforated Diverticulitis in an Immunocompromised Patient” Vermont Chapter of the American College of Surgeons Annual Meeting,	

### **National and International**

- 2020 “Diabetes Mellitus and Hyperglycemia are Associated with Inferior Oncologic Outcome in Adrenocortical Carcinoma”, AAES CESQIP Virtual Session, Boston MA.
- 2019 “Beyond Donate Life: Utilization and Re-perfusion of Unused Organs for Simulation and Education”, Podium Presentation, Academic Surgical Congress, Houston, TX
- 2018 “The Rate of Bleeding and Venous Thromboembolism Following Laparoscopic Sleeve Gastrectomy”, Podium Presentation, International Federation for the surgery of obesity and metabolic disorders (IFSO) 23<sup>rd</sup> World Congress, Dubai, United Arab Emirates September 26-29<sup>th</sup> 2018
- 2018 “Discrepancies Between Physician and Midlevel Provider Attitudes on Bariatric Surgery”, Podium Presentation, Academic Surgical Congress, Jacksonville, FL
- 2017 “Patient Perceptions and Quality of Life After Colon and Rectal Surgery, Podium Presentation, *Academic Surgical Congress*, Las Vegas, NV
- 2017 “3 Decades Later: Investigating the Rate of and Risk Factors for Conversion from Laparoscopic to Open Cholecystectomy”, Podium Presentation, SAGES Annual Meeting, Houston TX
- 2016 “Histopathological Evaluation of Gallbladder following Cholecystectomy: Are We Accepting Resect and Discard?”, Podium Presentation, *Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)*, Boston, MA
- 2016 “Rethinking ‘High Risk’: An Analysis of Outcomes Following PHS High Risk Organ Transplant”, Podium Presentation, *Academic Surgical Congress, Jacksonville, FL*

## **Report of Clinical Activities and Innovations**

### **Current Licensure and Certification**

- 2019 Board Certified in General Surgery, American Board of Surgery
- 2019 Massachusetts Medical License (Full)
- 2018 - ACLS & BLS Certification
- 2017 Fundamentals of Laparoscopic Surgery (FLS) certification
- 2017 Fundamentals of Endoscopic Surgery (FES) certification
- 2013 - ATLS Certification

### **Practice Activities and Global Health**

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|------|---|--------------------------------------|-----------------------------|
| 2019 | Medical Mission- Health Talents International | Guatemala City, Guatemala            | Resident in training        |
| 2017 | “Healthcare Hero” Award                       | University of Vermont Medical Center | Resident in training        |
| 2016 | Medical Mission “Team HEART”                  | Kigali, Rwanda                       | Resident in training        |
| 2015 | Medical Mission                               | Sacred Heart Hospital, Milot Haiti   | Resident in training        |
| 2013 | Medical Mission / Student Rotation            | Macha Hospital, Zambia               | Medical student in training |

## **Report of Scholarship**

### **Peer Reviewed Publications**

**Wrenn SM**, Wang TS, Toumi A, Kiernan CM, Solórzano CC, Stephen AE. Practice patterns for surgical management of low-risk papillary thyroid cancer from 2014 to 2019: A CESQIP analysis. *The American Journal of Surgery* (2020)

**Wrenn SM**, Vaidya A, Lubitz C. Primary Aldosteronism. *Gland Surgery* (2020)

**Wrenn SM**, Griswold ED, Uhl FE, Uriarte JJ, Park HE, Coffey AL, Dearborn JS, Ahlers BA, Deng B, Lam YW, Huston DR, Lee PC, Wagner DE, Weiss DJ. Avian Lungs: A novel scaffold for lung bioengineering. *Plos One* (2018)

**Wrenn SM**, Marroquin CE, Hain DS, Pineda JA, Harm SK, Hammond PB, Shah DH, Hillyard SE, Fung MK. Improving the performance of virtual crossmatch results by correlating with nationally-performed physical crossmatches: obtaining additional value from proficiency testing activities. *Human Immunology* (2018)

Kapoor T, **Wrenn SM**, Callas PW, Abu-Jaish W. Cost Analysis and Supply Utilization of Laparoscopic Cholecystectomy. *Minimally Invasive Surgery* (2018)

**Wrenn SM**, Cepeda-Benito A, Ramos-Valadez D, Cataldo PA. Patient perceptions and quality of life after colon and rectal surgery: what do patients really want? *Diseases of Colon and the Rectum* (2018).

Kapoor T, **Wrenn SM**, Callas PW, James TA. Analysis of patient-detected breast cancer recurrence. *Breast Disease* (2017). doi: 10.3233/BD-170288.

**Wrenn SM**, Kapoor T, Callas PW, Aunchman AF, Paine AN, Pineda JA, Marroquin CE. Increased Risk Organ Transplantation in the Pediatric Population. *Pediatric Transplantation* (2017). doi:10.1111/petr.13041

Coffin SJ, **Wrenn SM**, Callas PW, Abu-Jaish W. Three Decades Later: Investigating the Rate of and Risks for Conversion from Laparoscopic to Open Cholecystectomy. *Surgical Endoscopy* (2017).

**Wrenn SM**, Parsons CS, Yang M, Malhotra AK. Acute large bowel pseudo-obstruction due to atrophic visceral myopathy: A case report. *International Journal of Surgical Case Reports* (2017). <http://dx.doi.org/10.1016/j.ijscr.2017.02.040>

**Wrenn SM**, Weiss DJ. Whole Organ Tissue Engineering: No Longer Just A Dream. *Current Pathobiology Reports* (2016). doi: 10.1007/s40139-016-0110-x

**Wrenn SM**, Callas PW, Abu-Jaish W. Histopathological Evaluation of Specimen Following Cholecystectomy: Are We Accepting Resect and Discard? *Surgical Endoscopy* (2016) doi: 10.1007/s00464-016-5002-y

**Wrenn SM**, Gibson PC, Hain DS, Harm S, Hammond PB, et al. Development of *de novo* Hemolytic Uremic Syndrome Post- Transplant and the Role of Donor Specific Antibodies: A Case Report and Review of Literature. *J immuno Biol* (2015) 1: 101. doi: 10.4172/jib.1000101

Gold PE, **Wrenn SM**. Cycloheximide impairs and enhances memory depending on dose and footshock intensity. Behavioral Brain Research 233 (2012): 293-297

### Peer reviewed publications in print or other media

Bludevich BM, **Wrenn SM**, Abu-Jaish W. Massive Portal Vein Thrombosis Three Weeks Following Laparoscopic Sleeve Gastrectomy: Case Report and Review of Literature. Bariatric Times (May 2017).

### Unpublished manuscripts currently under peer review

**Wrenn SM**, Pandian TK, Gartland RM, Fong ZV, Nehs MA. Diabetes Mellitus and Hyperglycemia are Associated with Inferior Oncologic Outcomes in Adrenocortical Carcinoma. Submitted for Publication June 2020.

Gasek N, Dearborn J, Enes SR, Pouliot, Louie J, Phillips Z, **Wrenn SM**, et al. Comparative Immunogenicity of Decellularized Wild Type and Alpha 1,3 Galactosyltransferase Knockout Pig Lungs: Consideration for *Ex Vivo* Xenogeneic Lung Bioengineering and Transplantation. Submitted for Publication February 2019.

### Professional educational materials or reports, in print or other media

**Wrenn SM**, Healy M, Phitayakorn R, James B. Laparoscopic Left Adrenalectomy: A Video-based Module. Harvard Medical School Press. 2020

Moore JS, **Wrenn SM**. Management of the Unhealed Perineal Wound After Proctectomy. Difficult Decisions in Colorectal Surgery. Springer 2016

### Abstracts, Awards, Poster Presentations and Exhibits Presented at Professional Meetings

Poster Presentation, “Gender Representation at the American Association of Endocrine Surgeons (AAES) from 2010-2019” AAES Annual Meeting 2020 (*Cancelled due to COVID-19*).

Abstract presentation, “Laparoscopic Management of intractable GERD symptoms & hiatal hernia following laparoscopic sleeve gastrectomy. A case report with video”. Vermont Chapter of the American College of Surgeons, June 14<sup>th</sup> 2018

Podium presentation, “Revisiting the Impact of Intraoperative Cholangiography on Cholecystectomy Complication Rates and Operative Time”. SAGES Annual Meeting, April 11-14<sup>th</sup> 2018

Abstract Presentation, “Surgeon Procedure Volume Strongly Associated with Adverse Events Post Laparoscopic Cholecystectomy”, SAGES Annual Meeting, April 11-14<sup>th</sup> 2018

Abstract Presentation, “Discrepances Between Specialists and Primary Care Provider Attitudes on Bariatric Surgery” Vermont American College of Physicians (ACP) Annual Meeting 2017.

Winner, Poster Pitch Presentation: “Avian Lung De- and Recellularization: A Novel Biomaterial for Pulmonary Therapeutics”. Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Diseases conference. July 2017, Burlington VT

Poster Presentation, “Analysis of Diverticulitis Recurrence in Relation to Immunosuppression” American Society of Colon and Rectal Surgeons Annual Scientific Meeting, June 2017 Seattle WA

Abstract Presentation, “Bronchocutaneous Fistula- An Uncommon Complication after Laparoscopic Cholecystectomy” VT Chapter of the American College of Surgeons, May 2017 Burlington VT

Abstract Presentation, “The Impact of the WHO Checklist on Morbidity and Mortality at the UVM Medical Center” VT Chapter of the American College of Surgeons, May 2017 Burlington VT

Abstract Presentation, “Massive Portal Vein Thrombosis Three Weeks Following Laparoscopic Sleeve Gastrectomy” VT Chapter of the American College of Surgeons, May 2017 Burlington VT

Thematic Poster Presentation, American Thoracic Society 2017 Annual Conference, “Avian Lung De- and Recellularization: A Novel Biomaterial for Pulmonary Therapeutics”. May 2017 Washington DC

Poster Presentation, VT Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Diseases Conference 2017, “Lung bioengineering using avian tissue” Burlington VT

Poster Presentation, SAGES 2017, “Cost Analysis and Supply Utilization of Laparoscopic Cholecystectomy” March 2017 Houston, TX

Poster Presentation, Obesity Week (ASMBS) 2016, “The Value of Preoperative and Postoperative Histopathological Analysis in Patients Undergoing Laparoscopic Sleeve Gastrectomy”. October 31<sup>st</sup>-November 4<sup>th</sup>, 2016. New Orleans, LA.

Poster of Distinction, American Transplant Congress 2016, “Validation of Virtual Crossmatch Results With Over 30,000 Nationally-Performed Physical Crossmatches: A Novel Predictive Algorithm”. June 2016. Boston, MA.

Thematic Poster Presentation, American Thoracic Society 2016 Annual Conference, “Human Macrophage *Ex Vivo* Response to Decellularized Wild Type and  $\alpha$ -Galactosyltransferase Knockout Pig Lungs” May 2016. San Francisco, CA.

Poster Presentation, University of Vermont Larner COM Teaching Academy Mud Season Symposium: “Does the Position of the Surgery Clerkship Correlate With Performance on the NBME Exam?” April 2016. Burlington, VT.

Poster Presentation, SAGES 2016 Conference: “Gender-Associated Differences in Gallbladder Pathology and Disease Severity”, March 2016. Boston MA.

Abstract Presentation, Academic Surgical Congress, “Utilization of High Risk Organs in Pediatric Abdominal Solid Organ Transplantation”, February 2016. Jacksonville, FL

Poster Presentation, Southeastern Surgical Congress, “Mega-Mucinous Adenocarcinoma of the Breast: An Unusual Case” February 2014

Poster Presentation, Rush University Research Forum: “Complications from Inferior Vena Cava Filters: A Pictorial Essay” *April 2012*

Poster Presentation, Chicago Radiology Society 2012 Conference: “Complications from Inferior Vena Cava Filters: A Pictorial Essay” *February 2012*

<b>June 2015</b>	Resident Teaching Award	Clerkship Students	University of Vermont Larner COM
<b>June 2014</b>	Resident Teaching Award	Clerkship Students	University of Vermont Larner COM
<b>June 2017</b>	Resident Teaching Award	Clerkship Students	University of Vermont Larner COM
<b>June 2018</b>	Resident Teaching Award	Clerkship Students	University of Vermont Larner COM
<b>June 2019</b>	Resident Teaching Award	Clerkship Students	University of Vermont Larner COM