CURRICULUM VITAE

Shannon F.R. Small, MD, FACS

**Version date:** 11/12/2024

**Proposed for:** Appointment as Assistant Professor, Department of Surgery, Yale School of Medicine

**Term:** Primary Appointment: beginning 01/01/2025

**School:** Yale School of Medicine

**Education:**

08/1999-05/2003 AB, English, Duke University, Durham, NC

08/2003-05/2008 MD, Wake Forest University School of Medicine, Wake Forest University Baptist Medical Center, Winston Salem, NC

**Career/Academic Appointments:**

07/2008-06/2009 Intern, General Surgery, Virginia Commonwealth University Health System, Richmond, VA

07/2009-06/2010 Resident, General Surgery, Virginia Commonwealth University Health System, Richmond, VA

07/2010-06/2013 Immunotherapy and Surgical Oncology Fellow, National Cancer Institute, National Institute of Health, Bethesda, MD

07/2013-06/2016 Resident, General Surgery, Virginia Commonwealth University Health System, Richmond, VA

07/2016-06/2017 Surgical Critical Care Fellow, Children’s Hospital of Michigan, Detroit Medical Center, Wayne State University, Detroit, MI

07/2017-12/2017 Locum Tenens surgeon, Weatherby Healthcare

01/2018-5/2019 Trauma/Critical Care surgeon, HSHS St. John’s Hospital, Springfield, IL

6/2019-9/2020 Trauma/Critical Care surgeon, Northstar Trauma, Chippenham Hospital, HCA, Richmond, VA

9/2020-5/2021 Locum Tenens surgeon, All Star and Integrity Locums

5/2021-9/2024 Trauma/Critical Care surgeon, South Shore University Hospital, Northwell Health, Bay Shore, NY

**Administrative Positions:**

6/2019-9/2020 Director, Surgical Critical Care unit, Northstar Trauma, Chippenham Hospital, HCA, Richmond, VA

5/2021-9/2024 Assistant Professor, The Donald and Barbara Zucker School of Medicine, Hofstra University, Long Island, NY

**Board Certification:**

2017-2028 American Board of Surgery, General Surgery

2017-2028 American Board of Surgery, Surgical Critical Care

**Certifications:**

2022-present ATLS Instructor

2022-present Stop the Bleed Instructor

2022-present Certified Nutrition Support Clinician

2023-present ASSET Instructor

**Professional Honors & Recognition:**

***International/National/Regional***

2016 Alpha Omega Alpha Medical Honor Society, Brown-Sequard Chapter

***University***

2008 Richard L. Burt Research Award, Wake Forest University School of Medicine, Winston Salem, NC

2008 M. Robert Cooper Scholarship Award, Wake Forest University School of Medicine, Winston Salem, NC

2013 David M. Hume Award, Humera Surgical Society, Virginia Commonwealth University Health System, Richmond, VA

2016 Medical Student Teaching by a Resident Teaching Award, Virginia Commonwealth University Health System, Richmond, VA

**Grant/Clinical Trials History:**

***Current Clinical Trials***

Agency: Stimdia Medical, Inc.

ID#: NCT05998018

Title: Randomized Study of the pdSTIMTM System (phrenic nerve to diaphragm STIMulation) in Failure to Wean Mechanically Ventilated Patients (ReInvigorate Study)

PI: Neal Hakimi, MD

Role on project: co-investigator (representing SICU)

Percent effort: 10%

Project period: 01/2024 – 08/2024

Agency: South Shore University Hospital, Northwell Health

ID#: IRB 23-0374-SSU

Title: Does Early and Frequent Mobilization Improve Outcomes in Critically Ill Patients

PI: Shannon F.R. Small, MD, FACS

Role on project: PI, design, author of IRB

Percent effort: 80%

Project period: 01/01/2024 – 01/01/2027

Agency: South Shore University Hospital, Northwell Health

ID#: IRB 23-0457-SSU

Title: Regional Anesthesia versus Opioids: A Comparison of Pain Management of Traumatic Rib Fractures

PI: Shannon F.R. Small, MD, FACS

Role on project: PI, design, author of IRB

Percent effort: 80%

Project period: 02/01/2024 – 02/01/2027

***Past Clinical Trials***

Agency: National Cancer Institute, Surgery Branch

ID#: Protocol # 130214

Title: Phase II Study of Metastatic Cancer that Expresses NY-ESO-1 Using Lymphodepleting Conditioning Followed by Infusion of Anti-NY-ESO-1 Murine TCR-Gene Engineered Lymphocytes

PI: Steven A. Rosenberg, MD, PhD

Role on project: Lead associate investigator

Percent effort: 30%

Project period: 09/2013 – 07/2018

# Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated with Yale:

***International/National***

1. Small, S. Invited Guest Lecturer, The Female Surgical Patient. Acute Care

Surgery and Burn Conference, Department of Surgery, The Ohio State University Wexner Medical Center. September 2024.

1. Small, S. Raising the Next Generation. SCAPELS Series Moderator. Association of Women

Surgeons. June 2024.

1. Small, S. Gender Differences. Cross Mentoring Workshop Series Moderator. Association of

Women Surgeons. July 2024.

1. Rosati, S. Pediatric Trauma: an Overview. Surgery Grand Rounds. Montego Bay, Jamaica. July

2014. (Oral presentation).

1. Rosati, S. Neuroblastoma. Pediatric Grand Rounds. Montego Bay, Jamaica. July 2014. (Oral

presentation).

***Regional***

1. Small, S. Code Airway: Recognition and Management of the Critical Airway.

Surgery Grand Rounds, South Shore University Hospital, Northwell Health. Bay Shore, NY. August 2023. (Oral presentation).

1. Small, S. Surgical I&D. Emergency Medicine Resident Education. South Shore

 University Hospital, Northwell Health. Bay Shore, NY. July 2023. (Oral presentation).

1. Small, S. Women are From Venus: Care of the Female Surgical Patient. Surgery

Grand Rounds, South Shore University Hospital, Northwell Health. Bay Shore, NY. August, 2022. (Oral presentation).

**Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated with Yale:**

***International/National***

1. Margiotta E, Wenger I, Henglein J, Relja S, Gills K, Boland P, Martella N, Betancourt-

Ramirez A, Small, S. Effects of the Implementation of a Specialized Protocol on Patients with Traumatic Rib Fractures. 19th Annual Academic Surgical Congress. Washington DC. February 2024 (Oral presentation).

2. Henglein J, Margiotta E, Wenger I, Boland P, Martella N, Betancourt-Ramirez A, Small,

S. A Comparison of Scoring Systems to Identify Patients at Increased Risk from Traumatic Rib Fractures. 19th Annual Academic Surgical Congress. Washington DC. February 2024. (Oral presentation).

3. Margiotta E, Wenger I, Henglein J, Kuo YH, Boland P, Martella N, Betancourt-Ramirez

A, Small S. A Standardized Approach to Traumatic Rib Fractures Leads to Decreased Intubation Rates & ICU LOS. Society of Critical Care Medicine Clinical Congress. Phoenix, AZ. January 2024. (Oral presentation).

1. Small S, Borg B, Kato P, Shanti C, Donoghue L. The Role of LFTs in the Evaluation of

 Blunt Trauma in Pediatric Trauma Patients: Are They Necessary? 13th Annual Academic

Surgical Congress. Jacksonville, FL. January, 2018. (Oral presentation).

1. Rosati S, DeAntonio J, Oiticica C. Laparoscopic Nissen Fundoplication in a 3.3 kg Premature

Infant with Situs Inversus Totalis. World Federation of Associations of Pediatric Surgery, 4th Clinical Congress. Washington, DC. 2016. (Oral presentation).

1. Rosati S, DeAntonio J, Parrish D, Oiticica C, Lanning D. Minimially Invasive Gastroesophageal

Dissociation in Neurologically Impaired Children: Review of an Institutional Experience. Rocky Mountain Hospital for Children International Symposium on MIS in Infants and Children. 2016 (Oral presentation)

1. Parrish D, Rosati S, Singh M, Haynes J. Can Select Isolated Pediatric Closed Head

Injuries Be Safely Managed on a Non-Surgical Service? Panamerican Trauma Congress, XXVIII, Santa Cruz, Bolivia. 2015. (Oral presentation).

1. Rosati S, Goldberg S, Ferrada P. (2015). Management of Duodenal Injuries: Presentation and Co-

Moderator. PanAmerican International Trauma Conference. 2015. (Oral presentation)

1. Rosati, S., Brown, J., Wolfe, L., Shah, A., Lee, N., Maloney, A., Haynes, J., Amendola, M.

Central Venous Catheter-Associated Vascular Injury in Children: A Survey of Venous Duplex Studies. 10th Annual Academic Surgical Congress; Las Vegas, NV. 2015. (Oral presentation).

1. Rosati, S., Parrish, D., Haynes, J., Brown, K., Poppe, M., Lanning, D. Histrelin Implant

Treatment of Central Precocious Puberty: A Single Center Experience. 10th Annual Academic Surgical Congress; Las Vegas, NV. 2015. (Oral presentation).

1. Rosati, S., Parrish, D., Haynes, J., Maarouf, R., Oiticica, C., Lange, P., Lanning, D. A

Collaborative Experience in Caring for Infants Born with Esophageal Atresia in Belize. 10th Annual Academic Surgical Congress. Las Vegas, NV. 2015. (Oral presentation).

1. Rosati S, Parrish D, Lange P, Oiticica C, Lanning D. The Use of Robotic Surgery Allows

for Improved Dexterity and Visualization for Thoracoscopic Thymectomy. International Pediatric Endosurgery Group Meeting. Edinburgh, United Kingdom. 2014. (Oral presentation).

1. Rosati S, Parrish D, Maarouf R, Poppe M, Manners R, Brown K, Haynes J. Implementation of

Pediatric Cervical Spine Clearance Guidelines at a Combined Trauma Center: 12 Month Follow Up. Pediatric Trauma Society. Chicago, IL. 2014. (Oral presentation).

1. Rosati S, Parrish D, Vanguri P, Brengman M, Lange P, Oiticica C, Lanning D.

Laparoscopic Gastric Plication in Adolescents and Young Adults with Severe Obesity- Description of First Patient Enrolled in Pilot Study. International Pediatric Endosurgery Group Meeting. Edinburgh, United Kingdom. 2014. (Oral presentation).

1. Rosati S, Sherry R, Kesserwan C, Garabedian E, Phan G, Lee C, Pittaluga S, Baird K, Lopez-

Terrada D, Bridge J, Wayne A, Candotti F, Sokolic R. Role of Surgical Resection in Multicentric Dermatofibromasarcoma Protuberans in Children with Adenosine Deaminase-Deficient Severe Combined Immunodeficiency. 4th World Congress of Pediatric Surgery; Berlin, Germany. 2013. (Oral presentation).

***Regional***

1. Rosati S, Parrish D, Poppe M, Brown K, Cassano A, Lanning D. The Use of Robotic

Surgery in Thoracic Surgery: Patient Satisfaction in Children and Adult Populations in a Single Institution. Virginia Commonwealth University Health System Department of Surgery Research Day. 2015. (Oral presentation).

1. Rosati S, Haynes J. Out of Hospital Cardiac Arrest in Children. Quarterly Pediatric Trauma

Conference, Children's Hospital of Richmond; Richmond, VA. 2014. (Oral presentation).

1. Rosati S, Parkhurst M, Hong Y, Zheng Z, Feldman S, Rao M, Abate-Daga D, Beard R, Xu H,

Black M, Robbins P, Schrump D, Rosenberg S, Morgan R. (2013). A Novel Murine T Cell Receptor Targeting NY-ESO-1 Shows Persistent Receptor Expression and In Vitro Effector Function. Humera Surgical Society Meeting; Cambridge, MD. 2013. (Oral presentation).

**Professional Service**

***Peer Review Groups/Grant Study Sections:***

2024 Abstract Reviewer, Society of Critical Care Medicine Annual Congress

2024 Abstract Reviewer, Association of Women Surgeons STARR Research Forum

***Journals:***

Reviewer

2024 *American Journal of Surgery*

***Professional Organizations:***

American College of Surgeons

2013-2020 Member

2020-present Fellow Member

2022-present Member, Young Fellows Association Diversity, Equity and Inclusion Committee

2023-2026 YFA Liaison Representative to the BOR Committee on Ethics

2023-present Member, Board of Governors’ Diversity Attrition/Retention Taskforce

2024-present Co-Lead, Inclusive Excellence Attrition/Retention Taskforce

Association of Women Surgeons

2017-present Member

2022-present Member, Membership Committee

2022-present Member, HeForShe Committee

2023-present Member, Clinical Practice Committee

2024-present Vice-Chair, HeForShe Committee

2024-present Co-Chair, Outreach/HeForShe committee

The Eastern Association for the Surgery of Trauma (EAST)

2019-present Member

2024-present Member, EAST4ALL Committee

Society of Critical Care Medicine

2016-present Member

2024-present Member, DEI Committee

Association for Academic Surgery

2015-present Member

2025-2027 Elected DEI Committee member (active member representative)

Women’s Leadership in Surgery Society

2023-present Member

***South Shore University Hospital/Northwell Health:***

Health System Committees

2022-2024 Member, Diversity and Equality Physician’s Council

2023-2024 Member, Social Determinants of Health Interprofessional Education Workgroup

2024 Member, Distinction in Surgical Research Program

Medical School Committees

2022-present Faculty Mentor, Underrepresented Minorities Mentorship Program, The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

2024 Faculty Moderator, ACE Surgery Journal Club, The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Departmental Committees

2023-2024 Member, Critical Care Service Line DEI & Wellness Committee

2023 Faculty Clinical Mentor, The Mentoring and Professionalism in Training (MAP-iT) Program

### Hospital Committees

2022-2024 Member, Equality, Diversity, Inclusion and Belonging Committee

2024 Faculty Mentor, SSUH Career Exploration Program

***Yale University/Hospital System:***

University Committees

Medical School Committees

Departmental Committees

### Hospital Committees

**Public Service / Programs:**

***Public Service:***

2004 Research fellow, Columbia University, New York, NY, American Pediatric Research Society

2006 Research fellow, St. Jude Children’s Research Hospital, Memphis TN

2010 Research fellow, Immunotherapy and Surgical Oncology, National Cancer Institute, National Institute of Health, Bethesda, MD

2014 International aid trip to Jamaica, Children’s Medical Service International

*Programs:*

2023 Participant, Association of Women Surgeons ‘ Shining Star Leadership Program

2024 Participant, Linkage Advancing Women Leaders Program

2024 Participant, Northwell Health Career Advancement Learning Leadership and Strategy Program

**Bibliography:**

***Peer-Reviewed Original Research***

1. Hamner J, Sims T, Cutshaw A, Dickson P, Rosati S, McGee M, Ng C, Davidoff A. The efficacy of combination therapy using adeno-associated virus-interferon beta and trichostatin A in vitro and in a murine model of neuroblastoma. Journal of PediatricSurgery. 2008 Jan; 43(1): 177-182. PMID: 18206478.
2. Sims T, Williams R, Ng C, Rosati S, Spence Y, Davidoff A. Bevacizumab suppresses neuroblastoma progression in the setting of minimal disease. Surgery. 2008 Aug; 144(2): 269-275. PMID: 18656635.
3. Rosati S, Williams R, Nunnally L, McGee M, Sims T, Tracey L, Zhou J, Fan M, Ng C, Nathwani A, Stewart C, Pfeiffer L, Davidoff A. IFN-beta sensitizes neuroblastoma to the antitumor activity of temozolomide by modulating O6-methylguanine DNA methyltransferase expression. Molecular Cancer Therapeutics. 2008 Dec; 7(12): 3852-3858. PMID: 19056675.
4. McGee M, Hamner J, Williams R, Rosati S, Sims T, Ng C, Gaber M, Calabrese C, Wu J, Nathwani A, Duntsch C, Merchant T, Davidoff A. Improved intratumoral oxygenation through vascular normalization increases glioma sensitivity to ionizing radiation. International Journal of Radiation Oncology Biology and Physics. 2010 Apr; 76(5): 1537-1545. PMID: 20338480.
5. Dudley M, Gross C, Somerville R, Hone Y, Schaub N, Rosati S, White D, Nathan D, Restifo N, Steinberg S, Wunderlich J, Kammula U, Sherry R, Yang J, Phan G, Hughes M, Laurencot C, Rosenberg S. Randomized selection design trial evaluating CD8+-enriched versus unselected tumor-infiltrating lymphocytes for adoptive cell therapy for patients with melanoma. Journal of Clinical Oncology. 2013 May; 31(17): 2152-2159. PMID: 23650429.
6. Beard R, Abate-Daga D, Rosati S, Zheng Z, Wunderlich J, Rosenberg S, Morgan R. Gene Expression profiling using nanostring digital RNA counting to identify potential target antigens for melanoma immunotherapy. Clinical Cancer Research. 2013 Sep; 19(18):4941-4950. PMID: 24021875.
7. Rosati S, Parkhurst M, Hong Y, Zheng Z, Feldman S, Rao M, Abate-Daga D Beard R, Xu H, Black M, Robbins P, Schrump D, Rosenberg S, Morgan R. A novel murine T-Cell receptor targeting NY-ESO-1. Journal of Immunotherapy. 2014 Apr; 37(3): 135-146. PMID: 24598449.
8. Miller A, Rosati S, Sufferdini A, Schrump D. A Systematic Review and Pooled Analysis of CPR-Associated Cardiovascular and Thoracic Injuries. Resuscitation. 2014 Jun; 85(6): 724-731. PMID: 24525116.
9. Rosati, S., Maarouf, R., Parrish, D., Wolfe, L., Poppe, M., Manners, R., Brown, K., Haynes, J. Implementation of Pediatric Cervical Spine Clearance Guidelines at a Combined Trauma Center: 12 Month Impact. Journal of Trauma and Acute Care Surgery. 2015 June: 78(6): 1117-1121. PMID: 26151510.
10. Rosati, S., Parrish, D., Haynes, J., Brown, K., Poppe, M., Lanning, D. Histrelin Implant Treatment of Central Precocious Puberty: A Single Surgeon Experience. Journal of Surgical Research. 2015 Oct: 198(2): 355-9. PMID: 25899147.
11. Wenger IE, Farrugia K, Margiotta E, Reija S, Gills K, Henglein J, Boland P, Martella N, Kuo YH, Betancourt-Ramirez A, Small SFR. Nursing use of Pain, Inspiration, and Cough protocol decreases unplanned ICU admissions in patients with traumatic rib fractures. J Nursing Care Quality. 2024 Oct-Dec: 39(4): 307-309. PMID: 39167922.
12. Henglein J, Margiotta E, Wenger I, Boland P, Martella N, Bank M, Del Rio MB, Betancourt-Ramirez A, Small, S. A Comparison of Scoring Systems to Identify Patients at Increased Risk from Traumatic Rib Fractures. Journal of Surgical Research. 2024 Dec: 304:315-321. PMID: 39586173.
13. Margiotta E, Wenger IE, Henglein J, Kuo YH, Boland P, Martella N, Betancourt-Ramirez A, Small S. Implementation of a Modified Pain, Inspiration, Cough Protocol in Patients With Traumatic Rib Fractures. Journal of Surgical Research. 2024 Dec: 306 (30): 1-9. PMID: 39740286.

***In Press: Peer-Reviewed Original Research In Press***

***Peer-Reviewed Reviews, Practice* Guidelines, Standards, and Consensus Statements**

1. Small SFR et al. YFA Chapter, ACS DEI Toolkit. [internet]. 2023. Available from: https://www.facs.org/about-acs/diversity-equity-and-inclusion/toolkit/.

***Peer-Reviewed Case Reports and Technical Notes***

1. Rosati S., Maarouf, R. Goodreau A., Parrish D., Lanning D. Use of Laparoscopy for Gastrotomy and

 Removal of a Bezoar. Laparoscopic and Advanced Surgical Techniques (Videoscopy). 2014.

1. Rosati S., Parrish D., Maarouf R., Lanning D., Oiticica O. Thoracoscopic Repair of a Congenital

Diaphragmatic Hernia in a 4 Kg Infant. Laproscopic and Advanced Surgical Techniques (Videoscopy). 2014.

1. Maarouf R., Rosati S., Parrish D., Oiticica C., Lange P, Lanning D. Hernioscopy: A Useful Technique

 for Evaluation of Pediatric Contralateral Hernia. Laparoscopic and Advanced Surgical Techniques.

 2014.

4. Rosati S, Parrish D, Vanguri P, Brengman M, Lange P, Oiticica C, Lanning D. Laparoscopic Gastric

 Plication in Adolescents and Young Adults with Severe Obesity- Description of First Patient Enrolled in Pilot Study. Journal of Laparoendoscopic and Advanced Surgical Techniques (Videoscopy). 2014 Dec: 24(6).

5. Rosati S, Parrish D, Lange P, Oiticica C, Lanning D. The Use of Robotic Surgery Allows for Improved

Dexterity and Visualization for Thoracoscopic Thymectomy. Journal of Laproendoscopic and Advanced Surgical Techniques (Videoscopy). 2015 June: 25(3).

6. Parrish D, Rosati S, Lange P, Oiticica C, Lanning D. Robotic-Assisted Resection of Large Posterior

Mediastinal Mass. Journal of Laparoendoscopic and Advanced Surgical Techniques (Videoscopy). 2015 July: 25(4).

7. Parrish D, Rosati S, Lange P, Oiticica C, Lanning D. Laparoscopic and Robotic-Assisted

Gastroesophageal Dissociation for Recurrent Gastroesophageal Disease. Journal of Laparoendoscopic and Advanced Surgical Techniques (Videoscopy). 2015 Sept: 25(5).

8. Rosati, S., Parrish, D., Haynes, J., Maarouf, R., Oiticica, C., Lange, P., Lanning, D. A Collaborative

 Experience in Caring for Infants Born with Esophageal Atresia in Belize. Journal of Surgical Research.

1. : 199(1): 72-6. PMID: 26227676.

9. Rosati S., Maarouf R., Parrish D., Nishitani M., Oiticica C., Lanning D. Thoracoscopic Resection of a

Bronchgenic Cyst in a Premature Infant. Journal of Laparoscopic and Advanced Surgical Techniques (Videoscopy). 2015 Dec: 25(6).

10. Carroll KAS, Henglein J, Boland P, Gallagher P, Mehta K, Leffe SA, Shuminov O, Betancourt-

Ramirez A, Small SFR. Three Cases of Local Anesthetic Systemic Toxicity following regional infiltration analgesia: The need for prompt recognition and treatment. J Anesthesiol & Pain Therapy. 2023;4(2):20-24.

***Books***

***Chapters***

1. Rosati S, Hartwich J, Maarouf R, Parrish D, Teasley J, Oiticica C, Lanning D. Robotic Thymectomy in

Children with Myastenia Gravis. In Editorial Collection (Ed.). Novel challenges in Myasthenia Gravis (pp. 26:1-11). Hauppauge: Nova Science Publisher, Inc. 2014.

***Commentaries, Editorials, and Letters***

1. Rosati, SF. Hospice Hands. Journal of Palliative Medicine: 8(6):1287-1288.

doi:10.1089/jpm.2005.8.1287. Dec 2005.

1. Rosati, SF. The Power of a Stitch: Reflections from the Association of Women Surgeons’ Booth @ the 3rd USA Science and Engineering Festival. [www.womensurgeons.blogspot.com](http://www.womensurgeons.blogspot.com). May 2014.
2. Small, SFR. From Barbies to Blades: Reflections on a Barbie Society. Association of Women

 Surgeons Blog. Oct 2023.