Department of Surgery
Clinical Research Unit

Steven Lansman, MD, PhD
The Felicien Steichen Professor and Chairman
New York Medical College
Director, Department of Surgery
Westchester Medical Center

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Vice Chair of Research
Clinical Associate Professor of Surgery
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Chief of Trauma and Acute Care Surgery
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2022-2023 Academic Year Report
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Letter from the Chairman/Director and Vice Chair for Research

During the academic year of 2022-2023, the Department of Surgery has continued to build on our outstanding clinical research infrastructure and productivity for our medical students, trainees and faculty. In a multidisciplinary fashion and in collaboration with various departments, our research portfolio continues to focus on a wide scope of cutting-edge topics.

The Clinical Research Unit of the Department of Surgery is comprised of highly skilled biostatisticians, research scientists, research fellows and coordinators who work cohesively as one team by meeting weekly with Departmental Leadership, guiding a monthly Departmental journal club, engaging students and trainees, and supporting faculty research initiatives.

With leadership and support from Westchester Medical Center and New York Medical College, our research program provides structured mentorship for medical students, residents, fellows and faculty. We provide the resources and expertise necessary to excel in multiple research domains. These efforts have resulted in student, trainee and faculty presentations at prestigious local, regional, national and international meetings and numerous publications in high-impact academic journals. The Department of Surgery has multiple active research studies that receive extramural funding and collaborate with other prestigious academic institutions. Our main objective for the upcoming years is to continue to grow the research portfolio in a manner that contributes to advancing patient care, and growing our institution’s strong profile as a national leader in surgical research.

This report contains our achievements and ongoing research from the academic year of 2022-2023, and our commitment for the upcoming years. The works are organized chronologically as follows: overall review, peer reviewed papers, books, book chapters, abstracts/presentations and funding. Please note that one entry may appear in more than one place. The research portfolio contains the following general topics:

1. Trauma Surgery
2. Surgical Critical Care
3. Emergency General Surgery
4. Breast Surgery
5. Intra-Abdominal Transplantation
6. Cardiothoracic Surgery
7. Vascular Surgery
8. Surgical Oncology
9. Plastic and Reconstructive Surgery
10. Geriatric Surgery

We want to thank all faculty, residents, research fellows, medical students, and staff of the Clinical Research Unit for their dedication and hard work over the past year. We look forward to advancing research in all surgical disciplines and we believe that with ongoing dedication, Westchester Health Network and New York Medical College will continue to be leaders in academic surgery.

Steven Lansman MD, PhD
Professor and Chairman, Department of Surgery; New York Medical College
Director, Department of Surgery; Westchester Medical Center

Kartik Prabhakaran MD, FACS
Chief, Section of Trauma and Acute Care Surgery; Westchester Medical Center
Vice Chair of Research, Department of Surgery; New York Medical College
RESEARCH TEAM

Steven Lansman, MD, PhD
Director, Department of Surgery

Kartik Prabhakaran, MD, FACS
Vice Chair of Research

David Samson, MS
Associate Director, Clinical Research Unit

Anuritha Tirumani, MBBS
Associate Director, Clinical Trials

Gabriel Rodriguez, PhD, MSPH
Research Scientist

Mikael Ebanks, MPH
Statistician

Christopher Hall, BBA
Clinical Research Coordinator

Falyn Katzman, MPH
Research Coordinator

Krist Nikolla, MPH
Administrator
INTERNATIONAL TRAUMA RESEARCH FELLOWSHIP PROGRAM

The International Trauma Research Fellowship provides an opportunity for qualified, highly motivated individuals to work intimately with nationally recognized academic surgeons at the Westchester Medical Center in Valhalla, NY. The goals of this program, in addition to conducting high-level clinical and basic science research, include establishing international relationships and opportunities for fellows to observe the trauma and acute care surgery systems in the United States so that they can share their experience with their home countries. The mentors have a track record of running numerous international trauma research fellowships to support success and positive outcome of the fellows’ time spent.

Current Fellow

Aryan Rafieezadeh, MD
Trauma Research Scholar
2023-2025

Upcoming Fellow

Anna Mary Jose, MBBS
Trauma Research Scholar
2023-2025
RESEARCH OVERVIEW

Our research portfolio is robust and growing. We currently have multiple surgical divisions participating in research. These divisions include the following: Breast Surgery, General Surgery, Vascular and Endovascular Surgery, Colorectal Surgery, Plastic Surgery, Pediatric Surgery, Transplant Surgery, Surgical Oncology, Trauma and Acute Care Surgery, Thoracic Surgery, Burn Surgery, Cardiothoracic Surgery, and Bariatric and Minimally Invasive Surgery. Not only do our Attendings participate in research, but also our residents, fellows and medical students. Our research projects range from systematic reviews to randomized controlled trials to follow-up studies, and retrospective cohorts and cross-sectional studies.
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<td>Ilya Shnaydman</td>
<td>Predictive Markers of Small and Large Bowel Injury from Blunt Trauma</td>
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<td>Author</td>
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<tr>
<td>Ilya Shnaydman</td>
<td>Implementation of Brain Injury Guidelines for Management of Traumatic Brain Injury at a Level 1 Trauma Center: a Retrospective Study</td>
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<td>3/1/2021</td>
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<tr>
<td>Ilya Shnaydman</td>
<td>A Predictive Index of Recurrent Life Altering Falls on Anticoagulants and Antiplatelet Drugs</td>
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<tr>
<td>Abbas Smiley</td>
<td>Mortality and morbidity and the associated factors for various diseases included in National Inpatient Sample database</td>
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<tr>
<td>Hiroshi Sogawa</td>
<td>Trend of Liver transplant etiology and outcomes in the United States</td>
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<td>4/1/2021</td>
</tr>
<tr>
<td>Hiroshi Sogawa</td>
<td>Is Compensation Prediction Score Useful in the US?</td>
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<tr>
<td>Hiroshi Sogawa</td>
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<td>Practice patterns and outcomes for pediatric ANCA vasculitis transplant recipients in a national cohort</td>
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<td>Hiroshi Sogawa</td>
<td>Nationwide Outcome Analysis of Effects of Organ Transplant Status for Admitted Trauma Patients</td>
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<tr>
<td>Hiroshi Sogawa</td>
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<td>Intent-to-Treat Analysis of Liver Transplant (Living Donor vs Deceased Donor) for Hepatocellular Carcinoma in the United States</td>
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<tr>
<td>David Spielvogel</td>
<td>Analysis of Natural History of Small Thoracic Aortic Aneurysm Patients</td>
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<tr>
<td>David Spielvogel</td>
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<td>Dylan Stewart</td>
<td>Risk Factors for Pediatric Traumatic Injury and Implementation of Trauma Prevention Measures in the Orthodox Jewish Community</td>
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<tr>
<td>Joseph Turkowski</td>
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<tr>
<td>Gregory Veillette</td>
<td>Translational Medicine: Discovery and Evaluation of Biomarkers/Pharmacogenomics for the Diagnosis and Personalized Management of Patients</td>
<td>Prospective Observational</td>
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<tr>
<td>Gregory Veillette</td>
<td>The Utility of Routine Computed Tomography in the Evaluation of Potential Renal Transplant Recipient</td>
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<tr>
<td>Gregory Veillette</td>
<td>Review of Outcomes in Patients with Cirrhosis Undergoing General Surgery</td>
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<tr>
<td>Gregory Veillette</td>
<td>Evaluation of Immunological Responses Against Hepatocellular Carcinoma (HCC) Tumors</td>
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<tr>
<td>Tracey Weigel</td>
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<tr>
<td>Francis Winski</td>
<td>The Acute Burn Resuscitation Multicenter Prospective Trial- 2 (ABRUPT 2)</td>
<td>Prospective Multi-Center</td>
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<tr>
<td>Francis Winski</td>
<td>A Retrospective Analysis of Outcomes of Patients with Sternal Wound Dehiscence after Cardiothoracic Surgery at Westchester Medical Center</td>
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<tr>
<td>Bardiya Zangbar</td>
<td>Intracranial Pressure Monitoring in Trauma Patients from TQIP Database</td>
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<td>Bardiya Zangbar</td>
<td>Alcohol, Drug Abuse and Trauma: The Association of Intoxication on ICU Admissions and Complications</td>
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<td>Bardiya Zangbar</td>
<td>Geriatric Trauma, the Roles of Obesity and Anticoagulant Use and Relation with Brain Injury</td>
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<td>Bardiya Zangbar</td>
<td>Trends of Trauma Admissions to ICU During Pandemic: A Time Series Analysis</td>
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<td>Bardiya Zangbar</td>
<td>Predictors of Survival after Craniotomy in Geriatric Patients with Traumatic Brain Injury</td>
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<td>Bardiya Zangbar</td>
<td>Racial Disparity in EMS Response Time: Scope and Run or Stay and Play?</td>
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<td>Hypothermia on Admission Predicts Poor Outcomes in Adult Trauma Patients</td>
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<tr>
<td>Bardiya Zangbar</td>
<td>Social and Racial Disparity Impacts Victims of Physical Abuse Among Trauma Patients in the United States</td>
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<td>Bardiya Zangbar</td>
<td>Trauma Outcome and Injury Distribution in Children and Adults with Protective Devices</td>
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<tr>
<td>Elizabeth Zellner</td>
<td>Contrasting Facial Fracture Patterns in Sober and Alcohol Intoxicated Patients</td>
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<tr>
<td>Elizabeth Zellner</td>
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<tr>
<td>Elizabeth Zellner</td>
<td>Facial Fractures, Characteristics and Patterns in the United States: A Survey of Recent Trauma Quality Improvement Project (TQIP) Data</td>
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</table>
Each year, research within the Department of Surgery has increased substantially than the previous year. Growth in the number of publications has been exponential, indicating that the atmosphere within the Department of Surgery has been synergistic. Interaction within the department has produced results greater than the sum of individual contributions. Nothing is more evident of this progress than the number of peer-reviewed publications. Our students, residents, fellows, and attendings have contributed to topics ranging from nutrition to trauma.


29. Gregory V, Grunfeld M, Kanwal A, Bali AD, Pan S, Spielvogel D, Kai M, Ohira S. Escalation from impella 5.5 to ECPella support as a bridge to mitral valve surgery in a patient with degenerative mitral regurgitation [published online ahead of print, 2023 Jun 24]. Perfusion. 2023;2676591231186725.
doi:10.1177/02676591231186725*
doi:10.1093/cid/ciad072*
doi:10.1097/PRS.0000000000010475


52. Dhamdhere MR, Gowda CP, Singh V... **Grant CN**... et al. IGF2BP1 regulates the cargo of extracellular vesicles and promotes neuroblastoma metastasis. Oncogene. 2023;42(19):1558-1571. doi:10.1038/s41388-023-02671-0


* Represents peer-reviewed publications including medical students. Of the department’s 168 publications this year, 42 included medical students. Of these, medical students were the first author of 24.

§ Represents peer-reviewed publications including residents. Of the department’s 168 publications this year, 50 included residents. Of these, residents were the first author of 24.
Abstracts and Presentations
ABSTRACTS & PRESENTATIONS

LOCAL
Louis R.M. Del Guercio Research Day—May 24, 2023, Valhalla, NY

1. Heart Transplant in Patients with Elevated MELD-XI Score Using Hepatitis C Virus Infected Donor

2. Is the Untreatable Now Treatable? An Analysis of AIS-6 (Abbreviated Injury Scale) Survivors

3. Poor Socioeconomic Status is Associated with Delayed Femoral Fracture Fixation in Adolescent Patients
   - Vazquez S, Dominguez JF, Jacoby M, Rahimi M, Grant C, DelBello D, Salik I- best moderated poster

4. Trends and Disparities in Access to Minimally Invasive Distal Pancreatectomy (MIDP): An Eight-Year Analysis from the National Cancer Database
   - Jehan F, Misawa R, Neuwirth M, Veillette G- best moderated poster

5. Non-operative Management of Cirrhotic Patients with Acute Calculous Cholecystitis: How Effective is it?

6. Impaired Preoperative Ambulatory Status in Patients Undergoing Elective Endovascular Aortic Aneurysm Repair is Associated with Increased Mortality

7. How Does Drug Abuse Affect Outcomes after Trauma in Intensive Care Unit Patients? A Trauma Quality Improvement Program Study

8. Obesity and Hypercoagulable State in Geriatric Trauma

9. Preoperative Anemia is not Associated with Major Perioperative Adverse Events but Increased Length of Postoperative Stay in Patients Undergoing Transcarotid Artery Revascularization

10. Renal Transplant Recipients Undergoing Endovascular Abdominal Aortic Aneurysm Repair have Increased Risk of Perioperative Acute Kidney Injury but no Difference in Late Mortality

11. Ex-vivo Heart Perfusion Using Organ Care System for Cardia Transplantation: A Single Center Experience in the United States

12. Machine Perfusion Protects Against Mortality and Graft Failure in Donation After Cardiac Death Liver Transplant Recipient in the United States

13. The Impact of Renal Impairment on Lower Extremity Bypass Outcomes in Patients with Critical Limb Ischemia- A Propensity Score Matching Analysis

14. Long-term Nationwide Outcomes of Solid Organ Transplantation from COVID Positive Donors in the United States
15. Long-term Follow up of Solid Organ Transplantation Using Hepatitis C Virus Positive Donor for Hepatitis C Virus Negative Recipients

16. Fat Grafting for Temporal Hollowing Augmentation Following Craniectomy
   - Arbusio S, Choe J, Graifman G, Ritter E, Zellner E

17. Impact of Primary and Intermediate Rhinoplasty on Nasal Growth Restriction in Pediatric Patients with Cleft Lip and Palate Nasal Deformity

18. Hypoxia and Breast Cancer Progression: A SEER-Medicare Analysis

   - Briskin C, Choi J, Zeeshan M, Veillette G, Shnaydman I

20. Outcomes of Emergently Admitted Patients with Intestinal Fistula, Ulceration, Perforation, Angiodysplasia, and Dieulafoy Lesion: Frailty, Age, Time to Operation, and Hospital Length of Stay as Mortality Risk Factors
   - Elgar G, Smiley A, Barris B, Latifi R

21. Pancreatic Transplantation Causing Aortic Pseudoaneurysm with Massive GI Bleeding: Case Report and Review of Literature
   - Iqbal A, Li Xu M, Babu SC, Laskowski I, Veillette G, Goyal A

22. Cannulation Related Complications of Femoral VA-ECMO Support in Heart Transplantation: Role of Sartorius Muscle Flap

23. High Area Deprivation Index is Associated with Discharge to Foster Care in Suspected Non-accidental Trauma

24. Excision of a Symptomatic Duodenal Wed in an Eight-year-old-Male
   - McGuirk M, Martin K, Stewart D, Grant CN

25. Brachytherapy for 3-year-old with Vaginal Rhabdomyosarcoma: Challenges, Innovation, and Lessons Learned
   - Hameedi S, Novetsky A, Halperin E, Grant CN

Vascular Techniques and Technology Thinktank (VAST 3) Annual Meeting – August 4-6, 2022, Saratoga Springs, NY

1. Management of Progressive Thoraco-Abdominal Aortic Aneurysm and Dissection in a Patient with Marfan’s Syndrome

REGIONAL

Aortic Innovations Symposium – May 3, 2023, New York, NY

1. Review of Current Challenges of Proximal Aortic Surgery
   - Spielvogel D

New York Surgical Society – April 28, 2023, New York, NY

1. Robotic-Assisted Surgery Training (RAST): Assessment of Surgeon Console
   - Gachabayov M, Nguyen TT, Con J, Bergamaschi R, Castaldi M
New York Surgical Society– February 8, 2023, New York, NY
1. Robotic-Assisted Surgery Training (RAST) Program: Module 1 of a Three-Module Training Program
   - Khan M, Palmer M, Con J, Bergamaschi R, Castaldi M§§

2022 Greater New York Chapter of the American College of Surgeons Committee on Trauma Resident Paper Competition– November 18, 2022, Virtual
1. Is there a Need for Fresh Frozen Plasma (FFP) and Platelet Transfusion in Trauma Patients Requiring Sub-Massive Transfusion?
   - Jehan F- regional winner‡
2. A National Trend Towards Surgical Stabilization of Rib Fixation: Indications, Approaches and Disparity
   - Lin N‡
3. Optimal Timing of Operative Intervention for High Grade Carotid Injuries in Patients with Blunt Trauma: A Nationwide Analysis of Trauma Quality Improvement Program
   - Zeeshan M‡

VEITH Symposium– November 15-19, 2022, New York, NY
1. Surprisingly Occlusion of 1 or Both Hypogastric Arteries during EVAR does NOT Result in Serious Adverse Events: From a Large VQI Study
   - Chang H, Veith FJ, Rockman CB, Jacobowitz GR, Patel VI, Garg K

New York Society of Colon and Rectal Surgeons Interesting Case Night– October 6, 2022, New York, NY
1. Giant Squamous Cell Carcinoma Originating in Neglected Pilonidal Cyst
   - Kajmolli A, Bergamaschi R§

NATIONAL
American Society of Artificial Organs– June 14-17, 2023, San Francisco, CA
1. The Impact of Ipsilateral Implantable Cardioverter Defibrillator in Axillary Intra-Aortic Balloon Pump Support as Bridge-to-Heart Transplantation
2. CARD9: Ex-vivo Heart Perfusion Using Organ Care System for Cardiac Transplantation: A Single Center Experience in the United States. DOI:10.1097/01.mat.0000943560.03510.9e

American Transplant Congress– June 3-7, 2023, San Diego, CA
1. Utilization of Heart Machine Perfusion for Donation after Cardiac Death Transplantation Does Not Compromise Liver Transplant Outcomes
   - Okumura K, Misawa R, Dhand A, Ohira S, Sogawa H, Veillette G, Nishida S‡
2. Trends and Outcomes of Liver Transplantation in Human Immunodeficiency Virus Recipients
   - Okumura K, Misawa R, Sogawa H, Veillette G, Nishida S, Dhand A‡
3. Long-Term Nationwide Outcomes of Solid Organ Transplantation from VOCIID Positive Donors in the United States
5. Liver Transplantation in Septuagenarians: Outcomes and Potential Impact of Use of Organs from Donors >= 50 Years

6. Machine Perfusion Protects Against Mortality and Graft Failure in Donation after Cardiac Death (DCD) Liver Transplant Recipients in the United States
   - Okumura K, Misawa R, Dhand A, Sogawa H, Veillette G, Nishida S

American Society of Colon and Rectal Surgeons Annual Meeting– June 3-6, 2023, Seattle, WA

1. Surgical Management of Marjolin’s Ulcer in an Untreated Pilonidal Cyst
   - Kajmolli A, Gachabayov M, Nguyen TT, Bergamaschi R

2. Quality of Specimens in Rectal Cancer Surgery: Comparison of Robotic to taTME
   - Gachabayov M, Nguyen TT, Bergamaschi R

3. Pelvic Exenteration in a Transgender Female with Invasive Squamous Cell Carcinoma of the Neovagina

4. Racial Disparities in Minimally Invasive Proctectomies—A NSQIP Study

International College of Surgeon’s 84th Annual Meeting– May 4-6, 2023, San Antonio, TX

1. A Novel Technique for Wound Closure using Spanning Sutures to Decrease Graft Size
   - Levy L, Carr L

The International Society for Heart and Lung Transplantation– Apr 19-22, 2023, Denver, CO

1. Early Recurrence of Cardiac Sarcoidosis after Orthotopic Heart Transplantation

2. Ex-Vivo Heart Perfusion for Cardiac Transplantation: An Initial Experience in the United States

3. Utilization of Hepatitis C Virus Infected Donor in Heart Transplant Recipients with Elevated Meld-XI Score


5. Escalation from Impella 5.5 to Ecopella Support as a Bridge to Mitral Valve Surgery in a Patient with Non-Ischemic Cardiomyopathy with Degenerative Mitral Regurgitation
   - Gregory V, Grunfeld M, Kanwal A, Bali AD, Isath A, Pan S, Spielvogel D, Kai M, Ohira S

6. Impella S.5 with Veno-Arterial Extracorporeal Membrane Oxygenation Support as Ecopella 5.5

ACS Committee on Trauma Annual Meeting- March 8-12, 2023, Chicago, IL

1. Is there a Need for Fresh Frozen Plasma (FFP) and Platelet Transfusion in Trauma Patients Requiring Sub-Massive Transfusion?
   - Jehan F, Zangbar B, Shnaydman I, Klein J, Con J, Policastro A, Prabhakaran K

Mountain West Society of Plastic Surgeons– February 23-26, 2023, Denver, CO
Risk Factors and Complications of Abdominally Based Breast Reconstruction: A Comparative Analysis of 13,587 Patients
Levy L, Temple B, Carr L

Academic Surgical Congress – February 7-9, 2023, Houston, TX
1. Non-Operative Management of Cirrhotic Patients with Acute Calculous Cholecystitis: How Effective is it?
   - Hanna K, Zangbar B, Klein J, Shnaydman I, Bronstein M, Prabhakaran K, Con J
2. The Effect of Acuity in Circle Policy on Racial Disparity in Liver Transplantation

Society of Critical Care Medicine – January 21-24, 2023, San Francisco, CA
   DOI:10.1097/01.ccm.0000910960.95561.29
2. Extreme Elevation of Procalcitonin Induced by Meropenem. DOI:10.1097/01.ccm.0000907460.58988.9c
   - Li M, Shnaydman I, Villion A

The Society of Thoracic Surgeons – January 21-23, 2023, San Diego, CA
1. The Use of Donor Hearts 50 Years or Older to Septuagenarians in Heart Transplant: The Potential of Expanding the Donor Pool in Older Patients and Increasing the Availability of Younger Hearts

American Society of Transplant Surgeons Winter Symposium – January 12-15, 2023, Miami, FL
1. The Impact of New Acuity-Circle Policy on Septuagenarian Donors in Liver Transplantation in the United States

ACS TQIP Annual Conference – December 11-13, 2022, Phoenix, AZ
1. Registry Based Retrospective Utilization of the Nelson Scoring Tool to Evaluate the Appropriateness of Non-surgical Admission at a Level 1 Trauma Center
   - Maguire K, Kinkead B, McCaul B, Zangbar B, Prabhakaran K
2. One Size Does Not Fit All: Comparison of Methodology for Under-Triage Evaluation Reveals Differences Based on Patient Population
   - Maguire K, Kinkead B, McCaul B, Zangbar B, Prabhakaran K
3. Efficacy of a Self-Directed Stop the Bleed Course via an Instructional Brochure
   - Maguire K, Briskin C, Musicus M, Smiley A, Con J

Western Surgical Association – November 5-8, 2022, Santa Barbara, CA
1. Major Risk Factors for Mortality in Elderly and Non-Elderly Adult Patients Emergently Admitted for Blunt Chest Wall Trauma: Hospital Length of Stay as an Independent Predictor
   - Elgar G, Smiley A, Latifi R
2. Longer Hospital Length of Stay and Emergency Surgical Intervention are Associated with Lower Rates of Mortality in Elderly Patients with Ruptured Abdominal Aortic Aneurysm: Analysis of 7,214 Patients
   - Lobao A, Smiley A, Latifi R
American Heart Association and the Committee on Scientific Sessions Program—November 4-7, 2022, Chicago, IL

1. Limb and Cardiovascular Events at 6 Months Among CTLI Patients Receiving Routine Care at BEST-CLI Sites: An Interim Report from the BEST-Registry
   - Laskowski I

The Liver Meeting 2022 of American Association for the Study of Liver Diseases—October 31-November 8, 2022, Washington, DC

1. The Effect of Acuity in Circle Policy of Simultaneous Liver-Kidney Transplantation

Plastic Surgery the Meeting—October 27-30, 2022, Boston, MA

1. Collagen Vascular Disease as an Independent Predictor of Modified Frailty Index Score in Patients Undergoing Autologous Breast Reconstruction: An Analysis of 11,557 Patients
   - Levy L, Perakis H, Carr L, Ritter E*
2. Syndactyly Recurrence after Surgical Release in Harlequin Ichthyosis
   - Temple B, Kahan E, Zellner E, Carr LW*

American College of Surgeons Clinical Congress—October 16-20, 2022, San Diego, CA

1. The Risk of Mortality in Elderly Patients with Emergently Admitted Appendicitis is Approximately 22 Times Higher than that in Nonelderly-Adult Patients: A Retrospective Analysis of 339,917 Patients
   - Hirani R, Smiley A, Latifi L, Latifi R*
2. Complex Abdominal Wall Reconstruction with Biologic Mesh for Ventral/Umbilical Hernias in Patients with Cirrhosis
   - Latifi R, Samson DJ, Smiley A, Okumura K
3. Predictors Of In-hospital Mortality in Nonelderly Adult Patients Emergently Admitted with Rhabdomyolysis: A 10 Year Analysis of 32,140 Patients from the National Inpatient Sample
   - Lee JS, Smiley A, Latifi R*
4. Liver Transplantation does not Increase Morbidity or Mortality in Women Undergoing Surgery for Breast Cancer
   - Roberts S, Veillette G, Okumura K, Parsikia A, Choubey A, Ortiz J, Castaldi MT*
5. Reaching the Hard to Reach: Early Detection is Not Enough
   - Roberts S, Koziol KJ, Drivas E, Orlando M, Smiley A, Castaldi MT*
6. Hypothermia on Admission Predicts Poor Outcomes in Adult Trauma Patients
7. A National Trend Towards Surgical Stabilization of Rib Fixation: Indications, Approaches and Disparities
8. Intubation of the Geriatric Trauma Patient: Therapeutic versus Terminal?
9. Fresh Frozen Plasma and Platelets is Associated with Better Outcomes Even in Trauma Patients Requiring Sub-Massive Transfusion
11. Does Coffee Affect Bowel Recovery Following Minimally Invasive Colectomy? A 3-Armed Randomized Control Trial

12. Risk Factors and Complications of Abdominally Based Breast Reconstruction: A Comparative Analysis of 13,587 Patients
   - Levy L, Smiley A*

13. Post-operative Complications in Patients Undergoing Non-abdominal Wall Flap Reconstruction after Laparoscopic or Robotic Abdominoperineal Resection
   - Levy L, Smiley A*

14. Does Machine Perfusion of Liver Work for Donation after Cardiac Death?

Annual Meeting of the American Society for Surgery of the Hand– September 29-October 2, 2022, Boston, MA

1. Initial Opioid Prescription for Non-operative Distal Radius Fractures does not Account for Fracture Severity
   - McLaughlin C, Massand S, Lo A, Carr LW

Meeting of the Eastern Vascular Society– September 29-October 1, 2022, Philadelphia, PA

1. Young Patients Undergoing CEA have Increased Rates of Recurrent Disease and Late Neurologic Events

The American Association for the Surgery of Trauma– September 21-24, 2022, Chicago, IL

1. Social and Racial Disparity Impacts Victims of Physical Abuse Amongst Trauma Patients in the United States

International Federation for the Surgery of Obesity and Metabolic Disorders– August 23-27, 2022, Miami, FL

1. Euglycemic Diabetic Ketoacidosis Presents as a Surprising Complication after Bariatric Surgery
   - Lin N, Tat C, Cabello M, Giannone J, Maffei A, Cerabona T, Kaul A§

American Society of Transplant Surgeons Summer Symposium– August 4-7, 2022, Miami, FL

1. Analysis of Hepatopulmonary Syndrome in Liver Transplant; Portal Vein Thrombosis Might be Relevant

2. The Outcomes of Solid Organ Transplant during COVID-19 Pandemic in the United States

INTERNATIONAL

Kerecis Midnight Sun Conference– June 7-9, 2023, Reykjavik, Iceland

1. Complex Case of Necrotizing Fasciitis: Left Lower Extremity
   - Policastro A- Aurora award for best case

American Surgical Association– April 20-22, 2023, Ontario, Canada

1. Transanal Hemorrhoidal Dearterialization with Mucopexy versus Ferguson Hemorrhoidectomy for Prolapsed Internal Hemorrhoids: A Multicenter Prospective Study
   - Gachabayov M, Angelos G, Orangio G, Abcarian H, Bergamaschi R§
1. Intraoperative Infusion of Dextran Confers No Additional Benefit after Carotid Endarterectomy but is Associated with Increased Perioperative Major Adverse Cardiac Events
   - Moore JM, Garg K, Laskowski IA, Maldonado TS, Mateo RB, Babu S, Goyal A, Ventarola DJ, Chang H

1st SNUH Lee Yung Kyoon Memorial Symposium– December 10, 2022
1. Complex Bentall and Re-operative Total Aortic Arch Replacement
   - Spielvogel D
2. Spinal Cord Protection in Aortic Surgery
   - Spielvogel D

Japan Digestive Disease Week 2022– October 27-30, 2022, Fukuoka, Japan
1. Do MELD 3.0 have Better Discrimination of Mortality in Post-Liver Transplant?

Congress of the Vascular Society of India– October 6-9, 2022, Agra, India
1. Persistent Left Sided Superior Vena Cava (PLSVC): Implications for Vascular Surgeons
   - Babu S

World Professional Association for Transgender Health Conference– September 16-20, 2022, Montreal, Canada
1. Perioperative and Genitourinary Complications of Reconstructive Masculinizing and Feminizing Genital Gender Affirming Surgery Using the NIS Database
   - Bielawski A, Lebron K, Smiley A, Ferrando C, Grimes C

Kosova College of Surgeons Second Clinical Conference– September 15-18, 2022, Prishtina, Kosova
1. Surgical Quality and Improvement: From ‘Morbidity and Mortality’ to Patient Safety and Kaizen
   - Diflo T
2. The Pendulum of Resuscitation in Trauma: Incorporating Evidence-Based Knowledge and the Impact of Post-Pandemic Increases Trauma and Violent Crime
   - Prabhakaran K
3. Establishing an Integrated Breast Health Center- Providing Comprehensive Quality Care
   - Castaldi M
4. Geriatric Falls
   - Prabhakaran K
5. Nullius in Verba
   - Bergamaschi R
6. How do Physicians and Surgeons Deal with their own Disease? The Answer is not what you Think! Personal Reflections
   - Smiley A
7. Kidneys for Kosovo: Moving Toward a Balkan Transplant Program
   - Diflo T
International Congress of the Transplantation Society– September 10-14, 2022, Buenos Aires, Argentina
1. Inferior Long-Term Outcomes of Simultaneous Liver-Kidney Transplantation Using Donation after Cardiac Death Donors in the United Network for Organ Sharing Database

European Society of Cardiology– August 26-29, 2022, Barcelona, Spain
1. Survival and Renal Outcomes of Direct Heart Transplant from Veno-Arterial Extracorporeal Membrane Oxygenation Support

World Congress of Surgery International Surgery Week– August 15-18, 2022, Vienna, Austria
2. Indications, Techniques and Results of a Prospective Study on Direct Peritoneal Resuscitation (DPR) Used on 37 Patients Post Damage Control Surgery
   - Latifi R, Okumura K, Smiley A§

   - Okumura K, Misawa R, Nishida S§

* Represents abstracts and presentations including medical students. Of the department’s 109 presented abstracts this year, 35 included medical students. Of these, medical students were the first author of 29.
§ Represents abstracts and presentations including residents. Of the department’s 109 presented abstracts this year, 52 included residents. Of these, residents were the first author of 42.
Books and Book Chapters
**BOOKS**


**BOOK CHAPTERS**


NYMC Medical Student Research Involvement
Medical Students Ongoing Projects

1. Zhazira Irgebay, MS-4: Facial Fractures, Characteristics and Patterns in the United States: A Survey of Recent Trauma Quality Improvement Project (TQIP) Data
2. Madeleine Wong, MS-4: Secondary Data Analysis for Hepatocellular Carcinoma Patients Liver Transplant
3. Lior Levy, MS-4: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Multiple Topics
4. Bardia Khandehroo, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Umbilical Hernia and Gangrene
5. Danielle Newbury, MS-4: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Gastritis with Hemorrhage
6. Amit Krishnan, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Diaphragmatic Hernia
7. Arjun Syal, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Inguinal Hernia
8. Saral Patel, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Regional Enteritis
9. Rachel Thommen, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Diverticula of Small Intestine
10. Katherine Lo, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Blood in Stool
11. Maziyah Ogarro, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Vascular Insufficiency of Intestine
12. Akash Thaker, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - GI Adhesions with Obstruction
13. Maksat Idris, MS-3: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Ruptured Abdominal Aneurysm
15. Klaudia Koziol, MS-4: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Nipple Infection; Receptor Status in Breast Cancer
16. Antonio Lobao, MS-4: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Ruptured Abdominal Aneurysm
17. Sacha Roberts, MS-4: Assessing the Relationship between Obstructive Sleep Apnea and Breast Cancer Outcomes; Clinical Utility Study of a Low-Cost Hand-Held Breast Scanner; Receptor Status in Breast Cancer; Liver Transplantation Does Not Increase Morbidity or Mortality in Women Undergoing Surgery for Breast Cancer
18. Alexandra Lee, MS-4: Evaluation of Colloids in Traumatic Brain Injury Patients; Outcomes of Early Initiation of Venous Thromboembolism Prophylaxis in Isolated Traumatic Brain Injuries; Implementation of Brain Injury Guidelines for Management of Traumatic Brain Injury at a Level 1 Trauma Center: A Retrospective Study
19. Rahim Hirani, MS-2: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database - Gastroparesis; Repair of Fungal Pseudoaneurysm of the Common Brachiocephalic Trunk; Insertion of durable left ventricular assist device with repair of ischemic ventricular septal rupture; Cannulation-related adverse events of peripheral veno-arterial extracorporeal membrane oxygenation support in heart transplantation: Axillary versus femoral artery cannulation
21. Cailan Feingold, MS-2: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database- Multiple Topics

22. Adrienne Bielawski, MS-3: A Descriptive Study of Hospital Admissions Following Induced and Spontaneous Abortions in the United States; Perioperative and Genitourinary Complications of Reconstructive Masculinizing and Feminizing Genital Gender Affirming Surgery Using the NIS Database

23. Joanna Abouezzi, MS-3: A Descriptive Study of Hospital Admissions Following Induced and Spontaneous Abortions in the United States; Hospital Admissions due to Cardiovascular Disease during Pregnancy in the United States

24. Guy Elgar, MS-2: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database- Multiple Topics; Limb Salvage Using Cadaveric Vein Graft: A Single Center Experience

25. Hannah Litwa, MS-4: Evaluation of Colloids in Traumatic Brain Injury Patients; Implementation of Brain Injury Guidelines for Management of Traumatic Brain Injury at a Level 1 Trauma Center: A Retrospective Study

26. Sabrina Martinez, PL2: Analysis of Patients with Acute Heart Failure who Require Extracorporeal Membrane Oxygenation (ECMO) Support

27. Kira Lebron, MS-3: Incidence of Reproductive Tract and Breast Cancers in Hospitalized Transgender Patients; Perioperative and Genitourinary Complications of Reconstructive Masculinizing and Feminizing Genital Gender Affirming Surgery Using the NIS Database

28. Sophia Arbuio, MS-3: Cleft Lip Rhinoplasty; Fat Grafting for Temporal Hollowing Augmentation Following Craniectomy


30. Matan Grunfeld, MS-2: “Bowing Technique” for Using a HeartMate 3 Mini-Apical Cuff; Heart Recovery from a Brain-dead Donor with a History of Ravitch Procedure for Repair of Pectus Excavatum; Recurrent Stroke after Percutaneous Placement of Post-Infarct Septal Occluder Device

31. Merit Gorgy, MS-3: National Inpatient Sampling (NIS) Database of Child Abuse and Burn Injuries in Children and Adults

32. Kristyn Vicente, MS-2: Cleft Lip Rhinoplasty

33. Camille Briskin, MS-4: Predictive Markers of Small and Large Bowel Injury from Blunt Trauma

34. Salvatore Affrunti, MS-2: Evaluation of Colloids in Traumatic Brain Injury Patients

35. Aroubah Iqbal, MS-2: Comparing Venous Reflux in Reverse Trendelenburg Position Using Duplex Scan; Limb Salvage Using Cadaveric Vein Graft: A Single Center Experience; Evaluation of Patient Outcomes from the Kidney Alograft Outcomes AlloSure Registry (KOAR)

36. Cara Petrucci, MS-2: Hypoxia and Breast Cancer Progression: A SEER-Medicare Analysis; Prognostic Value of Sentinel Lymph Node Biopsy in Patients Above the Age of 75

37. Daneal Portman, MS-2: Meta-Analysis Comparing Anastomosis Types with Reconstruction of Rectal Resection

38. Ben Barris, MS-2: Mortality and Morbidity and the Associated Factors for Various Diseases Included in the National Inpatient Sample Database- Mallory Weiss Syndrome

39. Zehavya Stadlan, MS-4: Receptor Status in Breast Cancer

40. Francesco Ciuffo, MS-2: 20 Hydroxyeicosatetraenoic Acid (20-HETE) as a Biomarker in Acute Aortic Syndrome

41. Jessica McQuaid-Moore, MS-2: Evaluation of Safety of Intraoperative Infusion of Dextran after Carotid Endarterectomy

42. Sapir Flank, MS-2: Receptor Status in Breast Cancer

43. Chi-Yen Yao, MS-2: MatriDerm: A Meta-Analysis Exploring the Acellular Dermal Matrix

44. Parvathy Retnakumar, MS-4: Implementation of Brain Injury Guidelines for Management of Traumatic Brain Injury at a Level 1 Trauma Center: A Retrospective Study

45. Luis Castelan, MS-3: Risk Factors of Mortality in Emergently Admitted Patients with the Primary Diagnosis of Gangrene

46. Joshua Choe, MS-3: Cleft Lip Rhinoplasty
47. Nadiv Hossain, MS-4: Perioperative Impact of Preoperative Anemia in Patients Undergoing Transcarotid Artery Revascularization
48. Elias Kahan, MS-4: Cleft Lip Rhinoplasty
49. Chase Goldberg, MS-1: Bleeding and Thrombotic Complications of Endovenous Radiofrequency Ablation with or without Phlebectomy
50. Zachary Thomas, MS-2: Risk Factors of Mortality in Emergently Admitted Patients with Fistula of the Intestine, Excluding the Rectum and Anus (ICD-9 code 569.81) in NIS 2004-2024
51. Gillian Graifman, MS-3: Cleft Lip Rhinoplasty
52. Kyra Leonard, MS-1: Risk Factors of Mortality in Patients Admitted Emergently with the Primary Diagnosis of Esophageal Varices with Bleeding
53. David Haner Wasserstein, MS-1: Donor Risk Index for Intestinal and Multivisceral Transplantation; Risk Factors for Pediatric Traumatic Injury and Implementation of Trauma Prevention Measures in the Orthodox Jewish Community
54. Shreeya Agrawal, MS-2: Pediatric Solid Organ Injury Management
55. Victor Koltenyuk, MS-1: Limb Salvage Using Cadaveric Vein Graft: A Single Center Experience
56. Dawood Rashid, MS-2: Analysis of Patients with Acute Heart Failure who Require Percutaneous Left Ventricular Assist Device Support; Analysis of Heart Transplant Outcomes in the United States using the United Network for Organ Sharing (UNOS) Database
57. Sima Vazquez, MS-3: Risk factors for Posttraumatic Hydrocephalus after Decompressive Hemicraniectomy in Pediatric Patients with Traumatic Brain Injury; Tranexamic Acid Dosing in Craniosynostosis Surgery: A Systematic Review with Meta-analysis; Effect of Tracheostomy Timing in Pediatric Patients with Traumatic Brain Injury; Poor Socioeconomic Status is Associated with Delayed Femoral Fracture Fixation in Adolescent Patients
58. Aiden Lui, MS-3: The Impact of Renal Impairment on Lower Extremity Bypass Outcomes in Patients with Critical Limb Ischemia – A Propensity Score Matching Analysis
59. Vasiliki Gregory, MS-2: Repair of Infectious Thoracoabdominal Aneurysm and Coeliacomesenteric Trunk with Removal of Endovascular Graft; Ex-vivo Heart Perfusion Using Organ Care System for Cardia Transplantation: A Single Center Experience in the United States