

Curriculum Vitae and Bibliography

Mariela Rivera, MD

1. Personal Information

Citizenship: United States of America

2. Present Academic Rank and Position

Program Director, Surgical Critical Care Fellowship Program - Mayo Clinic, Rochester, Minnesota 02/2017 - Present
Assistant Professor of Surgery - Mayo Clinic College of Medicine and Science 03/2016 - Present
Consultant - Division of Trauma, Critical Care & General Surgery, Department of Surgery, Mayo Clinic, Rochester, Minnesota 06/2016 - Present

3. Education

University of Puerto Rico, Rio Piedras, San Juan, Puerto Rico - BS 1995 - 1999
University of Puerto Rico School of Medicine, San Juan, Puerto Rico - MD 1999 - 2003
San Juan City Hospital, San Juan, Puerto Rico - Internship 2003 - 2004
University of Puerto Rico School of Medicine, University Hospital, San Juan, Puerto Rico - Resident 2004 - 2010
Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine, Rochester, Minnesota - Fellow 2010 - 2011

4. Certification

Board Certifications

American Board of Surgery

Surgery 2012 - 2023
Surgery/Surgical Critical Care 2013 - 2024

American College of Surgeons (ACS)

Advanced Trauma Life Support (ATLS) 2007 - Present
Advanced Trauma Life Support (ATLS)/Course Director 2016 - Present
Advanced Trauma Life Support (ATLS)/Instructor 2010 - Present
Advanced Trauma Operative Management (ATOM) 2010 - Present
Rural Trauma Team Development Course Instructor/Course Director 2016 - Present
Rural Trauma Team Development Course Instructor/Instructor 2016 - Present

American Heart Association (AHA)

Advanced Cardiovascular Life Support (ACLS) 2010 - 2014
Basic Life Support (BLS) 2010 - 2014
Pediatric Advanced Life Support (PALS) 2010 - 2014

Society of Critical Care Medicine

Fundamental Critical Care Support (FCCS) 2010 - Present
Fundamental Critical Care Support (FCCS)/Instructor 2010 - Present
Pediatric Fundamental Critical Care Support (PFCCS) 2011 - Present
Pediatric Fundamental Critical Care Support (PFCCS)/Instructor 2011 - Present

Mayo Clinic Quality Academy

Mayo Clinic Quality Fellow: Bronze Level Certification	2012
Mayo Clinic Quality Fellow: Silver Level Certification	2015

5. Licensure

Puerto Rico	17367 (Medical)	09/2008 - 2013
Minnesota	53449 (Medical)	09/2011 - 2017

6. Honors and Awards

Dean's List - University of Puerto Rico, Rio Piedras, San Juan, Puerto Rico	1996 - 1999
Graduated Magna Cum Laude - University of Puerto Rico, Rio Piedras, San Juan, Puerto Rico	1999
Prize to Best Research/Clinical Science - F.L. Raffucci Surgical Forum Awards	02/2003
Graduated Cum Laude - University of Puerto Rico School of Medicine, University Hospital, San Juan, Puerto Rico	06/2003
Prize to Best Research/Basic Science - F.L. Raffucci Surgical Forum Awards	02/2006

7. Military Service**8. Previous Professional Positions and Major Appointments**

Associate Consultant - Clinical - Division of Trauma, Critical Care & General Surgery, Department of Surgery, Mayo Clinic, Rochester, Minnesota	07/2011 - 07/2013
Senior Associate Consultant - Division of Trauma, Critical Care & General Surgery, Department of Surgery, Mayo Clinic, Rochester, Minnesota	07/2013 - 06/2016
Acting Co-Director - Mayo Clinic Trauma Center, Rochester, Minnesota Co-Medical director PCU unit Francis 5 C	01/2016 – 03/2017

9. Professional and Community Memberships, Societies, and Services**Professional Memberships and Services**

American Association for Cancer Research Member	2007 - 2009
American Chemistry Association Member	1997 - 1999
American College of Surgeons Member	2007 - Present
	2015 - Present
American Medical Student Association Member	1999 - 2004
Association of Women Surgeons Member	2007 - 2012
Eastern Association for the Surgery of Trauma Member	2011 - Present
Golden Key International Honor Society Member	1999 - Present
Mayo Clinic Alumni Association Member	2010 - Present
Minnesota Surgical Society	

Member	2015 - Present
Sociedad Medicos Graduados Escuela de Medicina de Puerto Rico	
Alumni Member	2015 - Present
Society of Critical Care Medicine	
Member	2010 - Present
Abstract Reviewer	08/2016 - Present
Post Graduate and Fellowship Education Committee	
Member	01/2014 - Present

Journal Editorial Responsibilities

Thoracic Surgery: Clinics in Surgery	
Ad Hoc Reviewer	07/2016 - Present

10. Educational Activities

A. Curriculum and Course Development

Ultrasound for General Surgeons	01/2016 - Present
Currently developing a course for general surgery residents with program director.	

B. Teaching - Intramural

Head Trauma & Head Trauma Skills Station - ATLS Rochester, Minnesota	
Prognostic of Traumatic Brain Injury - 2011 Multidisciplinary Surgical Trauma Days Rochester, Minnesota	03/02/2011
Prognostic of Traumatic Brain Injury - 2011 Multidisciplinary Surgical Trauma Days Rochester, Minnesota	03/09/2011
Prognostic of Traumatic Brain Injury - 2011 Multidisciplinary Surgical Trauma Days Rochester, Minnesota	03/16/2011
Prognostic of Traumatic Brain Injury - 2011 Multidisciplinary Surgical Trauma Days Rochester, Minnesota	03/23/2011
Bronchoscopy - TCGS Lecture Series Mayo Clinic Rochester, Minnesota	07/21/2011
CRRT-Continuous Renal Replacement Therapy - TCGS Lecture Series Mayo Clinic Rochester, Minnesota	08/18/2011
Aiway Pressure Release Ventilation-APRV - TCGS Lecture Series Mayo Clinic Rochester, Minnesota	09/23/2011
Simulation Center Resident Teaching Rochester, Minnesota	10/11/2011
Bronchoscopy - TCGS Lecture Series Mayo Clinic	10/12/2011

Rochester, Minnesota	
CRRT-Continuous Renal Replacement Therapy - TCGS Lecture Series Mayo Clinic Rochester, Minnesota	11/03/2011
Airway Pressure Release Ventilation-APRV - TCGS Lecture Series Mayo Clinic Rochester, Minnesota	12/14/2011
Thoracic Trauma - ATLS Course Rochester, Minnesota	01/03/2012
ATLS Skills Station Rochester, Minnesota	01/03/2012
ATLS Skills Station Rochester, Minnesota	01/04/2012
Bronchoscopy - TCGS Lecture Series Mayo Clinic Rochester, Minnesota	01/10/2012
CRRT - Continuous Renal Replacement Therapy - TCGS Lecture Series Rochester, Minnesota	02/09/2012
Airway Pressure Release Ventilation (APRV) - TCGS Lecture Series Rochester, Minnesota	03/07/2012
Airway Pressure Release Ventilation Mayo Clinic Rochester, Minnesota	05/09/2012
FCCS Course - Cardiovascular/Cerebral Resuscitation Rochester, Minnesota	05/30/2012
FCCS Skills Stations - Acute Care Scenarios Rochester, Minnesota	05/30/2012
Abdominal Compartment Syndrome Critical Care Grand Rounds Rochester, Minnesota	09/2012
Integrative Skills Station - FCCS Course Rochester, Minnesota	10/10/2012
Bronchoscopy - TCGS Lecture Series Rochester, Minnesota	10/23/2012
Prone Position for ARDS- TCGS Lecture Series Rochester, Minnesota	11/15/2012
Small Bowel Obstruction JO2B Professional Development Days Rochester, Minnesota	01/2013

Basic Surgical Critical Care Management (BSCAM) Course Rochester	05/2013
Working Lunch Skills Station- FCCS Rochester, Minnesota	05/22/2013
Diagnosis and Management of Shock- FCCS Rochester, Minnesota	05/22/2013
Integrative Skill Station 1 - FCCS Rochester, Minnesota	05/22/2013
Airway & Ventilatory Managemenet - ATLS Lecture Rochester, Minnesota	06/26/2013
Airway Skills Station - ATLS Rochester, Minnesota	06/26/2013
Practical Skills Station Moulage - ATLS Rochester, Minnesota	06/27/2013
Head Trauma & Head Trauma Skills Station - ATLS Rochester, Minnesota	06/27/2013
Incisional Hernia JO2B Professional Development Days	02/2014
Mock Orals with Chief Residents	02/14/2014
Small Bowel Obstruction Internal Medicine Grand Rounds Rochester, Minnesota	04/2014
Skill Station - Respiratory Failure & Shock: Evaluation and Management PFCCS (Pediatric Fundamental Critical Care Support Course) Rochester, Minnesota	04/23/2014
Accidental & Non-Accidental Trauma Lecture PFCCS (Pediatric Fundamental Critical Care Support Course) Rochester, Minnesota	04/23/2014
Skills Station - Accidental & Non-Accidental Trauma and Poisoning PFCCS (Pediatric Fundamental Critical Care Support Course) Rochester, Minnesota	04/23/2014
Shock Mayo Interns Lecture Rochester, Minnesota	09/19/2014
Incisional Hernias Mayo Surgical Interns Lecture Rochester, Minnesota	09/26/2014
Mock Orals Exams with Chief Residents	09/29/2014

Mock Orals Exams with Chief Residents	10/03/2014
APRV TCGS Lecture Series Rochester, Minnesota	11/03/2014
ATLS Skills Stations Advanced Trauma Life Support Course Rochester, Minnesota	12/04/2014
CVVH TCGS Lecture Series Rochester, Minnesota	12/18/2014
Monday Night Chief Conference Moderator Monday Night Chief Conference	01/26/2015
Moderate Surgical ICU Journal Club Surgical Critical Care Journal Club	02/11/2015
Mock Orals Exam with Chief Residents	02/13/2015
ICU Case Presentation for Medical Students	03/2015
Basic Doctoring Suture Workshop For Mayo Medical Students Suture Workshop	03/05/2015
Moderate Surgical ICU Journal Club Surgical Critical Care Journal Club	04/08/2015
Head Trauma Advanced Trauma Life Support (ATLS) Course	04/17/2015
Head Trauma Skills Station Advanced Trauma Life Support (ATLS) Course	04/17/2015
Practical Skills Station Advanced Trauma Life Support (ATLS) Course	04/17/2015
Mock Orals Exams for PGY 4th Year Residents	05/01/2015
Mock Oral Exams with Chief Residents	05/08/2015
Mock Orals Exams with Chief Residents	06/19/2015
Initial Trauma Evaluations MMS II Preclinical Block Rochester, Minnesota	07/02/2015
Journal Club Moderator TCGS Journal Club	08/11/2015
Skills Station: Respiratory Failure & Shock: Evaluation and Management	08/19/2015

Pediatric Fundamental Critical Care Support Course (PFCCS) Rochester, Minnesota	
Accidental and Non-Accidental Trauma Pediatric Fundamental Critical Care Support Course (PFCCS) Rochester, Minnesota	08/19/2015
Skills Station: Advanced Integration Pediatric Fundamental Critical Care Support Course (PFCCS) Rochester, Minnesota	08/2015
Skills Station: Sedation Pediatric Fundamental Critical Care Support Course (PFCCS) Rochester, Minnesota	08/20/2015
Mock Oral Exams with Chief Resident	09/2015
Integrative Skill Station 3 Fundamental Critical Care Support Course (FCCS)	10/22/2015
Mock Oral Exam with Chiefs	11/2015
Journal Club Moderator TCGS Journal Club	11/2015
Faculty for Instructor Course Advanced Trauma Life Support	11/19/2015 - 11/20/2015
Fistula Management JO2B Professional Development Days	01/27/2016
CRRT TCGS Lecture Series	01/28/2016
Medical Student Panel Pre-med Insight Team	02/2016
Journal Club Moderator TCGS Journal Club	02/08/2016
Fistula Management JO2B Professional Development Days	02/09/2016
Journal Club Moderator TCGS Journal Club	03/16/2016
Journal Club Moderator TCGS Journal Club	04/13/2016
Circulation Rural Trauma Team Development Course	04/14/2016
Initial Assessment Demonstration I Advanced Trauma Life Support	04/14/2016

Initial Assessment & Management Advanced Trauma Life Support	04/14/2016
Initial Assessment Demonstration II & Secondary Survey Advanced Trauma Life Support	04/14/2016
Surgical Skills/Practical Skills Station Discussion Advanced Trauma Life Support	04/14/2016
Secondary Survey Demonstration Advanced Trauma Life Support	04/14/2016
Transfer to Definitive Care Advanced Trauma Life Support	04/14/2016
Triage Scenarios Advanced Trauma Life Support	04/14/2016
Practical Skills Stations Advanced Trauma Life Support	04/14/2016
Initial Trauma Evaluations MMS III Preclinical Block	06/2016
Review of Surviving Sepsis Guidelines Acute Care Lecture Series	06/15/2016
Journal Club Moderator TCGS Journal Club	06/15/2016
Enterocutaneous Fistulas Chief Resident Conference - Staff Presentation	08/01/2016
Respiratory Failure and Shock: Evaluation and Management Pediatric Fundamental Critical Care Support Course (PFCCS)	08/17/2016
How To Read Radiologic Imaging Acute Care Lecture Series	08/18/2016
Course Director ATLS Refresher Course Rochester, Minnesota	10/07/2016
Article Reviews TCGS Journal Club Rochester, Minnesota	10/13/2016
Integrated Skill Station 1 - FCCS Course Fundamental Critical Care Support Course	10/19/2016
Course Director Rural Trauma Team Development Course Fairmont, Minnesota	11/02/2016
Circulation	11/02/2016

Rural Trauma Team Development Course
Fairmont, Minnesota

Secondary Survey & Transfer to Definitive Care
Rural Trauma Team Development Course
Fairmont, Minnesota

11/02/2016

Article Reviews
TCGS Journal Club
Rochester, Minnesota

11/17/2016

Article Reviews
TCGS Journal Club
Rochester, Minnesota

12/08/2016

Course Review for General Surgery Resident
ABSITE Review

12/22/2016

C. Mentorship

Individual and Position	Timeframe	Outcomes	Current Status
Ramirez, Tatiana Resident	1/2012 - 1/2014 General Surgery Resident	Successful completion of General Surgery Residency Program	General Surgery and Colon and Rectal Surgery Practice
Pakula, Andrea Fellow	1/2013 - 1/2014 Surgical Critical Care Fellow	Successful completion of fellowship--passed boards.	Associate Director Surgical ICU
Young, Erben Resident	1/2014 - 10/2014 Vascular Surgery Fellow	Successfully passed oral boards in October 2014. Mentored after failing first attempt of oral boards.	Completing Vascular Surgery Fellowship
Antpack, Eduardo Fellow	7/2014 - 7/2015 Surgical Critical Care Fellow	Completion of Fellowship	Awaiting VISA approval to start general surgery practice - passed oral boards and pending surgical critical care boards.
Hughes, Joy Fellow	7/2015 - 7/2016 General Surgery Resident	Completion of Fellowship	Surgical Critical Care Fellow
Peschman, Jacob Fellow	7/2015 - 7/2016 Surgical Critical Care Fellow	Completion of Fellowship	Transitioning to Staff Trauma/ICU

D. Academic Career Development

18th Annual Fundamentals of Surgical Research Course
New Orleans, Louisiana

10/2007 - 10/2007

Advanced Laparoscopic Hernia Surgery Workshop Covidien Headquarters SAGES	03/2009 - 03/2009
Connecticut Ultrasound in the Surgical ICU American College of Surgeons 86th Annual Clinical Congress Washington, District of Columbia	10/2010
Frequently Encounter Ethical Dilemmas in the Community Practice Course Rochester, Minnesota	02/2011 - 02/2011
TransFuse 2011: Transformative Fusion of Innovative Blood Management Technologies. Phoenix, Arizona	04/2011 - 04/2011
ISW: Scientific Writer's Workshop World Journal of Surgery	08/2011
A Donate Life Symposium - LifeSource Minneapolis, Minnesota	10/2011
Coding and Billing - SCCM Course San Juan, Puerto Rico	01/2013
Leadership Effect - Orientation	01/2013
Faculty Development Workshop Department of Surgery	06/2013
Leadership Effect - Professionalism	02/2014
Leadership Effect - Healthy Dialogue	02/2014
Faculty Development Workshop Department of Surgery	04/2014
Silver Quality Essentials Workshop Rochester, Minnesota	03/2015
Rib Stabilization Workshop	03/2015
Communication in Healthcare	05/2015
TOPIC (Trauma Outcomes & Performance Improvement Course) AAST Annual Meeting Las Vegas, Nevada	09/2015
Critical Care Ultrasound Society of Critical Care Medicine Orlando, FL, Florida	02/2016 - 02/2016

11. Institutional/Departmental Administrative Responsibilities, Committee Memberships, and Other Activities

Mayo Clinic

Adult Trauma Subcommittee - ICU Liasion

	2015 - Present
CLABSI Line Selection & Ordering Workgroup	
Member	10/2016 - Present
Critical Care Interest Group	
Advisor	07/01/2016 - Present
Serve as a liaison between medical students who are interested in critical care and Surgical Critical Care staff. Serve as faculty during meetings.	
Department of General Surgery Residency Committee	
Member	2013 - Present
General Surgery Residency Program; Program Evaluation Committee	
Member	2013 - Present
ICU Clinical Practice Committee	
Member	2012 - Present
ICU Executive Committee	
Member	2013 - Present
ICU Midlevel Providers Liaison	
	2011 - Present
ICU Performance Improvement Committee	
Member	2010 - 2013
Chair	2013 - Present
Mayo Employee Resource Group, Somos Latinos	
Co-Chair	12/16/2016 - Present
Mayo Midwest Ethics Committee	
Member	01/2016 - Present
Surgical Critical Care Fellowship; Clinical Competency Committee	
Chair	2013 - Present
Surgical Critical Care Fellowship; Program Evaluation Committee	
Member	2013 - Present
Mayo Clinic in Rochester	
Department of Neurologic Surgery, Mayo Clinic, Rochester, Minnesota	
Spinal Cord Injury Subcommittee	
	2011 - Present
Spinal Cord Injury Subcommittee	
Department of Surgery	
Division of Trauma, Critical Care & General Surgery	
Pediatric Trauma Performance Improvement Committee	
Member	2011 - Present
Trauma Performance Improvement Committee	
Member	2010 - Present
Mayo Clinic Rochester Committees	

Organ Tissue Eye Donation	
Member	03/23/2016 - Present
Mayo Clinic Rochester Programs	
Independent Multidisciplinary Programs	
Critical Care Independent Multidisciplinary Program	
Critical Care IMP Education Subcommittee	
Member	03/2016 - Present
Activities at Other Institutions	
Eastern Association for the Surgery of Trauma, Venous Thromboembolism Practice Management Guideline Development Group	
Member	10/17/2016 - Present

12. Presentations Extramural

National or International

Invited

Monitoring Oxygen Balance and Acid-Base Status (supervised Dr. Tamar Saria) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/2015
Preview FCCS Course Telavi, Georgia	09/2015
Basic Trauma and Burn Support (supervised Dr. Nana Guldedava) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
Diagnosis and Management of Acute Respiratory Failure (supervised Dr. Gvantsa Kachlishvili) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
Diagnosis and Management of Shock (supervised Dr. Ana Eradze) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
Integrated Airway Management and Hypovolemic Shock Scenario (supervised Dr. Nino Zavrashvili) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015

Integrated Mechanical Ventilation Skills Station I (supervised Dr. Levan Sukhishvili) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
Integrated Sepsis Scenario (supervised Dr. Nutsa Gakhokidze) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
Integrated Trauma Scenario Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
Mechanical Ventilation (supervised Dr. Levan Sukhishvili) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
Recognition and Assessment of the Seriously Ill Patient (supervised Dr. Sandra Nadiradze) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
Trauma/Hemorrhagic Shock (supervised Dr. David Tvidiani) Supervised/Advised Lectures Fundamental Critical Care Support Course (FCCS) Tbilisi, Georgia	09/28/2015
La Importancia de la Investigacion Colegio Mater Salvatoris San Juan, Puerto Rico	11/11/2015
Faculty/Co-course Director	11/12/2015 - 11/13/2015
Cardiovascular Evaluation and Shock Skill Station: Respiratory Evaluation and Shock Skill Station: Ventilation I and II Recap of day 1 Skill Station: Sedation Skills Lab Skill Station: Transport of the Critical Child Skill Station: Integration Station I Pediatric Fundamentals of Critical Care Course San Juan, Puerto Rico	
Manejo Quirurgico Fracturas de Costillas 3rd Annual Mayo Clinic/Zihuatanejo General Hospital Medical Conference Ixtapa, Zihuatanejo, Mexico	03/11/2016
Monitoreo en la Unidad de Cuidados Intensivos: Nuevas Modalidades 3rd Annual Mayo Clinic/Zihuatanejo General Hospital Medical Conference	03/11/2016

Co-course Director for PFCCS course Next steps after PFCCS and FCCS in GEORGIA Pediatric Fundamental Critical Care Support Course Tbilisi, Georgia	05/2016
Faculty/Co-course Director Acute Respiratory Failure and Mechanical Ventilation Cardiovascular Evaluation and Shock Skill Station (Part 1): Respiratory Evaluation and Shock Management Skill Station (Part 2): Respiratory Evaluation and Shock Management Recap of day 1 Skill Station: Sedation Skills Lab Skill Station: Transport of the Critically Ill Child Pediatric Fundamentals of Critical Care Course San Juan, Puerto Rico	06/27/2016 - 06/28/2016
Skill Station Educational Workshop Tbilisi, Georgia	11/29/2016
Co-Course Director Fundamental Critical Care Course & Pediatric Fundamental Critical Care Course Tbilisi, Georgia	11/29/2016 - 12/02/2016
Intraosseous Presentation and Workshop Tbilisi, Georgia	12/02/2016
New Strategies in the Management of the High-Risk SSI Wound Mayo Clinic Interactive Surgery Symposium 2017 Waikoloa, Hawaii	02/09/2017
Pelvic Trauma: Initial Evaluation and Stabilization Mayo Clinic Interactive Surgery Symposium 2017 Waikoloa, Hawaii	02/09/2017
Oral	
Penetrating Colon Trauma Primary Repair Versus Colostomy Preliminary Results. F.L. Raffucci Surgical Forum/PR ACS Chapter San Juan	02/2003
The Sentinel Node Biopsy in Melanoma Accurately Assess the Metastatic Status of Regional Lymph Nodes F.L. Raffucci Surgical Forum/PR ACS Chapter San Juan	02/2006
JAK-2 Mediates the Interleukin-3 Dependent Growth of Bone-Metastatic Breast Carcinoma Cells	

F.L. Raffucci Surgical Forum/PR ACS Chapter San Juan	02/2007
Decreasing trend of acute respiratory distress syndrome after trauma: A population-based study in Olmsted County, Minnesota. International Surgical Week 2011 Yokohama, Japan	09/01/2011
Can Early Tissue Oxygen Saturation Predict the Requirements of Blood Transfusion in the Trauma Population? International Surgery Week Helsinki, Finland	08/2013
Poster	
Focal Adhesion Kinase Mediates Adhesion and Cell Spreading of Bone Metastatic Breast Carcinoma Cells MetaBre/BRECOSM Breast Cancer and Metastatic Conference Rome, Italy	12/2007
Surgeon Performed Ultrasound: Can be a useful test for localization of recurrent medullary thyroid carcinoma? Society of Surgical Oncology (SSO) Phoenix, Arizona	03/2009
The Birth of the Southern Minnesota Regional Trauma Advisory Committee World Trauma Congress Rio de Janeiro, Brazil	08/25/2012
Two cases of obliterative colitis following treatment for clostridium difficile colitis Digestive Disease Week Chicago, Illinois	10/30/2013
Just Move It! Implementing Early Exercise and Progressive Mobility in a Surgical/Trauma ICU/PCU 44th Annual Society of Critical Care Medicine Orlando, FL, Florida	02/20/2016

Regional**Invited**

Damage Control, Resuscitation and Mortality Outcomes TransFuse: The Transformative-Fusion of Innovative Patient Blood Management Phoenix, Arizona	04/19/2012
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When to Transfer

South Dakota Society of Hospital Medicine Conference
Rapid City, South Dakota 06/11/2015

Care For Patients With Enterocutaneous Fistula
Mayo Clinic Post Acute Care Annual Conference
Rochester, Minnesota 11/04/2016

Poster

White Lung: The Effects of Trauma
American College of Surgeons - Puerto Rico Chapter 58th Annual Meeting
San Juan, Puerto Rico 02/2008

Finding the Balance: Collaborative Management of Sedation, Pain, and delirium in
Mechanically Ventilated Surgical/Trauma Patients
Mayo Clinic Quality Academy Conference on "Creating and Paying for Value
in Health Care"
Rochester, Minnesota 05/2011

Just Move It! Implementing Early Exercise and Progressive Mobility in a Surgical/Trauma
ICU/PCU - Sponsored Presentation for Ann Tescher
2015 Mayo Clinic Quality Conference
Rochester 03/2015

Perspective on Quality in the Care of Specific Patient Populations - Sponsored
presentation for Ann Tescher
2015 Mayo Clinic Quality Conference 03/16/2015

13. Visiting Professorship

ICU Monitoring
Grand Rounds General Surgery, University of Puerto Rico Medical Sciences
Campus
Puerto Rico 11/2011

Low Tissue Oxygen Saturation in Trauma Patients
Grand Rounds, University of Puerto Rico Medical Sciences Campus
San Juan 07/2014

14. Clinical Practice, Interests, and Accomplishments

Enterocutaneous Fistula Specialty Groups; Rib Fracture Stabilization Work Group.

15. Research Interests

Management of enterocutaneous fistulas; Use of StO₂ as a resuscitation marker for trauma and ICU patients.

16. Educational Practice, Interests, and Accomplishments

17. Research Grants Awarded

Active Grants

Completed Grants

18. Patents

Title

Patent Number

Date Filed

Date Issued

Bibliography

Peer-reviewed Articles

1. Fernandez-Medero RL, **Rivera M**, Joglar F, Rodr#237;guez P, Canario MQ, Pelet J, Rodr#237;guez W. White lung: The effects of trauma. *Critical Care and Shock*. 2010; 13(2):61-6.
2. Lew JI, **Rivera M**, Irvin GL 3rd, Solorzano CC. Operative failure in the era of focused parathyroidectomy: a contemporary series of 845 patients. *Arch Surg*. 2010 Jul; 145(7):628-33. PMID: 20644124 DOI: 10.1001/archsurg.2010.104
3. Bannon MP, Heller SF, **Rivera M**. Anatomic considerations for central venous cannulation. *Risk Manag Healthc Policy*. 2011; 4:27-39. PMID: 22312225 PMCID: 3270925 DOI: 10.2147/RMHP.S10383
4. Khasawneh MA, Zielinski MD, Jenkins DH, Zietlow SP, Schiller HJ, **Rivera M**. Low tissue oxygen saturation is associated with requirements for transfusion in the rural trauma population. *World J Surg*. 2014 Aug; 38 (8):1892-7 PMID: 24969044 DOI: 10.1007/s00268-014-2505-3
5. Aho JM, Ruparel RK, Rowse PG, Brahmabhatt RD, Jenkins D, **Rivera M**. Tube Thoracostomy: A Structured Review of Case Reports and a Standardized Format for Reporting Complications. *World J Surg*. 2015 Nov; 39 (11):2691-706 PMID: 26159120 DOI: 10.1007/s00268-015-3158-6
6. Renew JR, Barbara DW, Hyder JA, Dearani JA, **Rivera M**, Pulido JN. Frequency and outcomes of severe hyperlactatemia after elective cardiac surgery. *J Thorac Cardiovasc Surg*. 2016 Mar; 151: (3)825-830. PMID: 26687885 DOI: 10.1016/j.jtcvs.2015.10.063
7. Choudhry AJ, Haddad NN, **Rivera M**, Morris DS, Zietlow SP, Schiller HJ, Jenkins DH, Chowdhury NM, Zielinski MD. Medical malpractice in the management of small bowel obstruction: A 33-year review of case law. *Surgery*. 2016 Oct; 160 (4):1017-1027 Epub 2016 Aug 16 PMID: 27542436 DOI: 10.1016/j.surg.2016.06.031
8. Heller SF, Pochettino A, **Rivera M**, Schiller HJ. Amphotericin-impregnated polymethylmethacrylate beads as treatment for soft tissue mucormycosis. *Surgery*. 2017 Dec; 162 (6):1330-1331 Epub 2017 May 24 PMID: 28549519 DOI: 10.1016/j.surg.2017.03.021

Editorials

1. **Rivera M**, Mora E. Mitos y realidades sobre la prevencion de cancer de piel. *Salud Al Dia El Nuevo dia Newspaper*. June 2007:22-23.

Abstracts

1. **Rivera M**, Mendez W. Surgeon performed ultrasound is a useful localization test for recurrent medullary thyroid carcinoma. *Annals of Surgical Oncology*. 2009; 16 (supplement 1):65.
2. **Rivera M**, Li G, Wilson GA, Gajic O, Schiller HJ, Park MS. Decreasing trend of acute respiratory distress syndrome after trauma: a population-based study in Olmsted County, Minnesota. *World Journal of Surgery*. 2011; 35 (supplement 1):S538.
3. Khasawneh MA, Zielinski MD, Jenkins D, Zietlow SP, Schiller HJ, **Rivera M**. Can early tissue oxygen saturation predict the requirement of blood transfusion in the trauma population? American Association for the Surgery of Trauma/ International Association for Trauma and Intensive Care August 2013 Helsinki, Finland.2013 Aug 01;
4. Ruparel RK, Brahmabhatt RD, **Rivera M**, Morris DS, Heller SF, Jenkins D, Farley DR, Campbell RL, Laack TA. Securing chest tubes properly: can low-fidelity, low-cost simulation improve technical abilities of

emergency medicine residents? Ann Emerg Med. 2013 Oct; 62(4):S154.

* Indicates that the primary author was a mentee of this author