

Curriculum Vitae and Bibliography

Rodrigo Cartin-Ceba, MD, MSc

Personal Information

Place of Birth: San Jose, Costa Rica
 Citizenship: Costa Rica
 Work Address: Mayo Clinic
 5777 East Mayo Boulevard
 Phoenix, AZ 85054
 Email Address: CartinCeba.Rodrigo@mayo.edu

Present Academic Rank and Position

Teaching/Examining Privileges in Clinical & Translational Sci. - Mayo Clinic Graduate School of Biomedical Sciences, Mayo Clinic College of Medicine and Science 10/2014 - Present

Teaching/Examining Privileges in Clinical & Translational Sci. - Mayo Clinic Graduate School of Biomedical Sciences, Mayo Clinic College of Medicine and Science 10/2014 - Present

Consultant - Division of Pulmonary Medicine, Department of Internal Medicine, Mayo Clinic, Phoenix, Arizona 07/2015 - Present

Consultant (Joint Appointment) - Department of Critical Care, Mayo Clinic, Phoenix, Arizona 07/2015 - Present

Associate Professor of Medicine - Mayo Clinic College of Medicine and Science 07/2017 – Present

Associate Program Director- Pulmonary and Critical Care Fellowship program, Mayo Clinic, Phoenix, Arizona 06/2017 – Present

Education

University of Costa Rica School of Medicine, San Jose, Costa Rica - MD, Doctor in Medicine and Surgery 03/1992 - 12/1997

Universidad de La Laguna, Tenerife, Spain - Diploma, Molecular Biology and Parasitology 01/1995 - 03/1995

University of Newcastle-Upon-Tyne, New Castle, United Kingdom, Internal Medicine Clinical Elective 08/1997 - 10/1997

University of Costa Rica, Affiliated Hospitals, San Jose, Costa Rica - Resident, Internal Medicine 02/1999 - 02/2003

Affiliated Hospitals, Baylor College of Medicine, Houston, Texas - Internship, Internal Medicine 07/2003 - 07/2004

Affiliated Hospitals, Baylor College of Medicine, Houston, Texas - Resident, Internal Medicine 07/2004 - 07/2006

Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine, Rochester, Minnesota - Clinical Fellowship, Critical Care Medicine 08/2006 - 08/2008

Mayo School of Graduate Medical Education, Mayo Clinic College of Medicine, Rochester, Minnesota - Clinical Fellowship, Pulmonary Medicine 08/2008 - 08/2010

Mayo Graduate School, Mayo Clinic College of Medicine, Rochester, Minnesota— Masters in Clinical and Translational Science 10/2008 - 12/2013

Certification

Board Certifications

American Board of Internal Medicine (ABIM)

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| Internal Medicine | 2016 - 2026 |
| Critical Care Medicine | 2008 - 2018 |
| Pulmonary Disease | 2010 - 2020 |

Mayo Clinic Quality Academy

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| Mayo Clinic Quality Fellow: Bronze Level Certification | 2011 |
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Licensure

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| Arizona | (Medical) | |
| Minnesota | 49119 (Medical) | 11/2006 - Present |
| Wisconsin | 60136-20 (Medical) | 02/2013 - Present |
| South Dakota | 8941 (Medical) | 08/2013 - Present |
| New York | 271923-1 (Medical) | 08/2013 - Present |
| Montana | 26848 (Medical) | 08/2013 - Present |
| Kentucky | 46397 (Medical) | 09/2013 - Present |
| Idaho | M-12173 (Medical) | 09/2013 - Present |
| Iowa | 41301 (Medical) | 09/2013 - Present |
| Florida | ME117557 (Medical) | 09/2013 - Present |
| New Hampshire | 16340 (Medical) | 10/2013 - Present |
| Missouri | 2013039508 (Medical) | 10/2013 - Present |
| North Dakota | 13007 (Medical) | 11/2013 - Present |
| Michigan | 4301104117 (Medical) | 12/2013 - Present |

Honors and Awards

| | |
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| Intercampus Scholarship for Molecular Biology - Spanish Cooperative | 01/1995 |
| Summa cum Laude Graduation as a Medical Doctor - University of Costa Rica School of Medicine | 03/1998 |
| Best Costa Rican Internal Medicine Resident 1999. Postgraduate Studies program - University of Costa Rica | 12/1999 |
| Best Costa Rican Internal Medicine Resident 2001. Postgraduate Studies program - University of Costa Rica | 12/2000 |
| Best Costa Rican Internal Medicine Resident 2001. Postgraduate Studies program - University of Costa Rica | 12/2001 |
| "Dr. Rodrigo Cordero Zuñiga" Award for Outstanding Internal Medicine Resident - University of Costa Rica | 12/2002 |
| "Dr. Juan Rafael Leon Hernandez" Award for the best research study by Internal Medicine Residents - University of Costa Rica | 03/2003 |
| Summa cum Laude Graduation as Specialist in Internal Medicine - University of Costa Rica, Affiliated Hospitals, San Jose, Costa Rica | 04/2003 |
| Health Sciences Excellence Academic Award - University of Costa Rica, San Jose, Costa Rica | 08/2003 |
| Internal Medicine Excellence Academic Award - University of Costa Rica, San Jose, Costa Rica | 08/2003 |

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| Best Clinical Abstract - Housestaff Research Symposium, Baylor College of Medicine, Houston, Texas | 05/2006 |
| Outstanding Resident Award - Houston Society of Internal Medicine, Houston, Texas | 05/2006 |
| Excellence in Ambulatory Care Award - Michael E. DeBakey. VA Medical Center, U.S. Department of Veterans Affairs, Houston, Texas | 06/2006 |
| First Place - 2006 Southeast Region Associate Clinical Poster Competition, American College of Physicians, Houston, Texas | 06/2006 |
| First Place - 2006 Southeast Region Associate Medical Jeopardy Competition, American College of Physicians, Houston, Texas | 06/2006 |
| Henry D. McIntosh Award for Outstanding Resident in Internal Medicine - Baylor College of Medicine, Houston, Texas | 06/2006 |
| Best Poster Award - American College of Chest Physicians Annual Meeting, Chicago, Illinois | 10/2007 |
| Epidemiology and Outcomes Specialty Award - Society of Critical Care Medicine, 37th Critical Care Congress, Society of Critical Care Medicine, Honolulu, Hawaii | 02/2008 |
| Critical Care Meritorious Researcher Award. Critical Care Fellowship - Mayo Clinic in Rochester, Mayo Clinic, Rochester, Minnesota | 07/2008 |
| Outstanding Critical Care Academic Clinician Award. Critical Care Fellowship - Mayo Clinic in Rochester, Mayo Clinic, Rochester, Minnesota | 07/2008 |
| Outstanding Critical Care Teacher of the Year Award. Critical Care Fellowship - Mayo Clinic in Rochester, Mayo Clinic, Rochester, Minnesota | 07/2008 |
| Award for Outstanding Clinical Care - Marinelli Family Fellowship At Department of Medicine. Mayo Clinic, Rochester, Minnesota. | 05/2009 |
| Award in Pulmonary Diseases - Burgher Family Fellowship At Department of Medicine. Mayo Clinic, Rochester, Minnesota | 05/2009 |
| The American College of Chest Physicians Recognition Award for Outstanding Abstract by the Transplant Network - American College of Chest Physicians CHEST 2013. October 26-31. Chicago, Illinois | 10/2013 |
| Recognition for Excellence in Clinical Teaching - Department of Medicine and Internal Medicine Residency Program, Mayo Clinic, Rochester, MN | 08/2013 |
| Recognition for Excellence in Clinical Teaching - Department of Medicine and Internal Medicine Residency Program, Mayo Clinic, Rochester, MN | 08/2014 |
| Recognition for Excellence in Clinical Teaching - Department of Medicine and Internal Medicine Residency Program, Mayo Clinic, Rochester, MN | 08/2015 |

Previous Professional Positions and Major Appointments

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|---|-------------------|
| Consultant Physician - San Vito Hospital, General Medicine, Puntarenas, Costa Rica Costa Rican Social Security System | 03/1998 - 12/1998 |
| Internal Medicine Resident - University of Costa Rica, Affiliated Hospitals, San Jose, Costa Rica | 01/1999 - 12/2002 |
| Consultant Physician - Hospital Monsenor Sanabria, Internal Medicine, Puntarenas, Costa Rica | 01/2003 - 06/2003 |

Costa Rican Social Security System

Internal Medicine Resident - Affiliated Hospitals, Baylor College of Medicine, Houston, Texas 08/2003 - 07/2006

Special Clinical Fellow - Mayo Clinic College of Medicine and Science
Critical Care Medicine Fellow 08/2006 - 08/2008

Special Clinical Fellow - Mayo Clinic College of Medicine and Science
Pulmonary Medicine Fellow 08/2008 - 2010

Instructor in Medicine - Mayo Clinic College of Medicine and Science 09/2009 - 04/2010

Senior Associate Consultant - Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, Mayo Clinic, Rochester, Minnesota 01/2010 - 01/2013

Assistant Professor in Medicine - Mayo Clinic College of Medicine and Science 05/2010 - 06/2017

Director - Pulmonary Vasculitis Clinic, Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, Mayo Clinic, Rochester, Minnesota 01/2013 - 07/2015

Consultant - Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, Mayo Clinic, Rochester, Minnesota 01/2013 - 07/2015

Director - Respiratory Block Mayo Clinic Medical School, Mayo Clinic, Rochester, MN 01/2013 – 07/2015

Professional and Community Memberships, Societies, and Services

Professional Memberships and Services

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|---|-------------------|
| American College of Chest Physicians Member | 08/2006 - Present |
| American College of Physicians Member | 07/2003 - Present |
| American Lung Association American Lung Association of Arizona Board Member | 08/2015 - Present |
| American Medical Association Member | 08/2006 - Present |
| American Thoracic Society Member | 08/2008 - Present |
| Costa Rican College of Physicians and Surgeons Member | 02/1998 |
| European Respiratory Society Member | 01/2010 - Present |
| European Society of Intensive Care Medicine Member | 01/2010 - Present |
| Minnesota Medical Association Member | 08/2006 - Present |
| Society of Critical Care Medicine Member | 08/2006 - Present |

Vasculitis Foundation
 Research Committee
 Member

01/2014 - Present

Educational Activities

Teaching Intramural

Internal Medicine and Pharmacology
 Clinical Instructor
 University of Costa Rica
 Costa Rica

01/2001 - 12/2002

Resident Assistance Program
 Baylor College of Medicine
 Houston, Texas

08/2004 - 06/2006

Central Line Workshop
 Instructor
 Simulation Center, Mayo Clinic College of Medicine
 Rochester, Minnesota

08/2007

Central Line Workshop
 Instructor
 Simulation Center, Mayo Clinic College of Medicine
 Rochester, Minnesota

12/2007

Non invasive positive pressure ventilation in hypoxemic non-hypercapnic
 respiratory failure.
 64th Annual Tri-State Thoracic Conference
 Egg Harbor, Wisconsin

09/05/2008 - 09/07/2008

Respiratory physiology and pathophysiology laboratory for second year medical
 students.
 Mayo Medical School, Mayo Clinic
 Rochester, Minnesota

12/2009

Obstructive Lung Disease, Core Curriculum Lecture for Internal Medicine Residents
 Mayo School of Graduate Medical Education
 Rochester, Minnesota

03/2010

Acute Lung Injury and Acute Respiratory Distress Syndrome. Core Curriculum
 Lecture for Internal Medicine Residents.
 Mayo School of Graduate Medical Education
 Rochester, Minnesota

03/2010

Instructor for the Multicenter Bronchoscopy Workshop. Pulmonary and Critical Care
 Fellowship Program.
 Mayo School of Graduate Medical Education
 Rochester, Minnesota

07/2010

Research in Critical Care Medicine. Core Curriculum Lecture for Critical Care
 Fellows.
 Mayo School of Graduate Medical Education
 Rochester, Minnesota

09/2010

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| Respiratory physiology and pathophysiology laboratory for second year medical students. Mayo Medical School, Mayo Clinic Rochester, Minnesota | 12/2010 |
| Multidisciplinary Update in Pulmonary and Critical Care Medicine. Scottsdale, Arizona | 04/2011 |
| Instructor for the Multicenter Bronchoscopy Workshop. Pulmonary and Critical Care Fellowship Program. Mayo School of Graduate Medical Education Rochester, Minnesota | 07/2011 |
| Respiratory physiology and pathophysiology laboratory for second year medical students. Mayo Medical School, Mayo Clinic Rochester, Minnesota | 12/2011 |
| Director, Respiratory physiology and pathology course for second year medical students Mayo Medical School, Mayo Clinic Rochester, Minnesota | 09/2013 - 07/2015 |
| Pulmonary Vascular Disorders Mayo Clinic Arizona Medicine Grand Rounds Phoenix, Arizona | 02/2017 |

Mentorship

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|--|-------------------|
| Cawcutt, Kelly (Fellow) Description: Thesis advisory committee for clinical research master degree Current Status: Attending Physician and Assistant Professor of Medicine, University of Nebraska Outcome: Thesis successfully defended, 3 manuscripts pending for publication. Presentation at an International meeting. | 01/2010 - 06/2013 |
| Valerio-Rojas, Juan (Clinical Research Trainee) Description: Current Status: Attending physician, Costa Rican Social Security System Hospitals, Costa Rica. Outcome: research project regarding use of antiplatelets and sepsis outcomes was finalized and published. | 06/2010 - 12/2010 |
| Nolan, Matthew (Internal Medicine Resident) Description: Current Status: Pulmonary and Critical Care Fellow, Mayo Clinic, Rochester, MN Outcome: Published research study on the role of PICC lines in the ICU. Presentation at an International meeting. | 07/2013 - 06/2015 |
| Kelm, Diana (Internal Medicine Resident) Description: Current Status: Pulmonary and Critical Care Fellow, Mayo Clinic, Rochester, MN Outcome: Published clinical research projects and presentation at an International meeting. | 01/2014 - 06/2015 |
| Thompson, Gwen (Internal Medicine Resident) Description: | 01/2014 - 06/2015 |

Current Status: Pulmonary and Critical Care Fellow, Mayo Clinic, Rochester, MN

Outcome: Published 2 clinical research projects and presentation at an International meeting.

Yadav, Hemang (Fellow)

07/2014 - 06/2015

Description:

Current Status: Senior Associate Consultant, Pulmonary and Critical Care Medicine, Mayo Clinic, Rochester, MN

Outcome: Published 2 clinical research projects and presentation at an International meeting.

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

Mayo Clinic in Arizona

Mayo Clinic Arizona Committees

Continuous Improvement Committee

Patient Safety Subcommittee

Member

01/2016 - Present

Executive Operations Team - Arizona

Clinical Practice Committee - Arizona

Sedation Subcommittee

Member

01/2016 - Present

Presentations Extramural

National or International

Oral

Use of antibiotics at the Internal Medicine Department of Hospital Mexico.
LXIII National Medical Congress of Costa Rica.
Costa Rica

11/2001

Use of lovastatin for lowering microproteinuria in diabetic patients: a double blinded and randomized clinical trial in Costa Rican diabetic patients.
XVI Central America Congress of Internal Medicine and I Internal Medicine Congress of Costa Rica
Costa Rica

05/2002

Fetal outcomes of critically ill pregnant women admitted to the ICU for non-obstetric causes.
37th Critical Care Congress of the Society of Critical Care Medicine
Hawaii

02/2008

Ambrisentan for the therapy of Portopulmonary hypertension (POPH).

10/2009

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| 60th Annual Meeting of the American Association for the Study of Liver Diseases (AASLD) Boston, Massachusetts | |
| Early onset Severe Emphysema in a smoker with Multicentric reticulohistiocytosis. 2009 CHEST meeting, American College of Chest Physicians (ACCP) San Diego, California | 10/2009 |
| Safety and Efficacy of Ambrisentan for the Therapy of Portopulmonary Hypertension (POPH) 60th Annual Meeting of the American Association for the Study of Liver Diseases Boston, Massachusetts | 11/2009 - 11/01/2009 |
| Nicotine replacement therapy in critically ill patients: A prospective observational cohort study. 39th Critical Care Congress, Society of Critical Care Medicine Miami, Florida | 01/2010 |
| Rituximab for remission induction and maintenance in ANCA-associated vasculitis: A single-center ten-year experience in 108 patients. American College of Rheumatology Atlanta, Georgia | 11/2010 |
| Diffuse Alveolar Hemorrhage XII International Pulmonary Meeting - Dominican Republic Society of Pulmonology La Romana, Dominican Republic | 05/2011 |
| Management of ARDS/ALI XII International Pulmonary Meeting - Dominican Republic Society of Pulmonology La Romana, Dominican Republic | 05/2011 |
| Noninvasive Positive Airway Pressure Ventilation XII International Pulmonary Meeting - Dominican Republic Society of Pulmonology La Romana, Dominican Republic | 05/2011 |
| Association between the first central venous pressure time acquisition and mortality in patients with severe sepsis and septic shock American Thoracic Society San Francisco, California | 05/2012 |
| Blood product transfusion and acute kidney injury in severe sepsis and septic shock patients American Thoracic Society San Francisco, California | 05/2012 |
| Diffuse Alveolar Hemorrhage. XII International Pulmonary Meeting. Dominican Republic Society of Pulmonology. LaRomana, Dominican Republic | 05/2012 |

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| Hypoxemic respiratory failure, oliguric renal failure, and cutaneous purpura American Thoracic Society San Francisco, California | 05/2012 |
| Management of ARDS/ALI XII International Pulmonary Meeting. Dominican Republic Society of Pulmonology. LaRomana, Dominican Republic | 05/2012 |
| Non-invasive positive airway pressure ventilation. XII International Pulmonary Meeting. Dominican Republic Society of Pulmonology. LaRomana, Dominican Republic | 05/2012 |
| Obstructive sleep apnea is not a risk factor for hospital mortality in patients with severe sepsis and septic shock American Thoracic Society San Francisco, California | 05/2012 |
| Pituitary dysfunction in ANCA-associated vasculitides Endocrine Society Houston, Texas | 06/2012 |
| Ambrisentan for therapy of portopulmonary hypertension (POPH): Update on safety and efficacy European Respiratory Society Vienna, Austria | 09/2012 |
| Diffuse alveolar hemorrhage caused by primary antiphospholipid syndrome European Respiratory Society Vienna, Austria | 09/2012 |
| Hepatopulmonary syndrome: Long-term survival in the Mayo Clinic experience European Respiratory Society Vienna, Austria | 09/2012 |
| Is fluid administration within 6 hours early enough for better patient outcomes in sepsis and septic shock? Society of Critical Care Medicine San Juan, Puerto Rico | 01/2013 |
| Diffuse Alveolar Hemorrhage Mayo Clinic Multidisciplinary Update in Pulmonary and Critical Care Medicine Scottsdale, Arizona | 04/2013 |
| Diagnosis and Management of Diffuse Alveolar Hemorrhage Sunrise Seminar, American Thoracic Society Meeting Philadelphia, Pennsylvania | 05/2013 |
| Pulmonary Complications of Eosinophilic Granulomatosis with Polyangiitis (Churg | 07/2013 |

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| Strauss Syndrome) International Vasculitis Symposium - Vasculitis Foundation Philadelphia, Pennsylvania | |
| Diffuse Alveolar Hemorrhage in Hematopoietic Stem Cell Transplant Recipients: 10-Year Experience in a Single Center CHEST Meeting Chicago, Illinois | 10/2013 |
| Portopulmonary Hypertension: State of the Art First Annual Rio Grande Pulmonary Symposium El Paso, Texas | 03/2014 |
| Pulmonary Arteriovenous Malformations Mayo Clinic Multidisciplinary Update in Pulmonary and Critical Care Medicine Scottsdale, Arizona | 04/2014 |
| Diffuse Alveolar Hemorrhage: How to Manage It with or Without Plasma Exchange Scientific Symposium - American Thoracic Society Meeting San Diego, California | 05/2014 |
| Management and Treatment of ANCA-Associated Vasculitis Fronteras Symposium - Clinica Las Condes Santiago, Chile | 05/2014 |
| Pulmonary-Renal Syndromes Fronteras Symposium - Clinica Las Condes Santiago, Chile | 05/2014 |
| Update on Diagnosis and Management of Alveolar Hemorrhage Sunrise Seminar - American Thoracic Society Meeting San Diego, California | 05/2014 |
| Hepatopulmonary Syndrome and Portopulmonary Hypertension: Current Perspectives Emerging Topics in Liver Disease Conference Houston, Texas | 09/2014 |
| Pulmonary Complications of Liver Disease 44th Society of Critical Care Congress Phoenix, Arizona | 01/2015 |
| Management of Sepsis and Septic Shock 38th Annual Update in Cardiology & Pulmonology El Paso, Texas | 02/2015 |
| Association of Fc Gamma Receptor Polymorphisms and Outcomes in Patients with ANCA-Associated Vasculitis Treated with Rituximab | 04/2015 |

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| 17th International Vasculitis and ANCA Workshop London, United Kingdom | |
| Diagnosis and Management of ANCA-Associated Vasculitis 3rd Internal Medicine Congress of the Atlantic Coast Mar del Plata, Argentina | 04/2015 |
| Practical Approach for the Management of Sepsis and Septic Shock 3rd Internal Medicine Congress of the Atlantic Coast Mar del Plata, Argentina | 04/2015 |
| Arteriovenous Malformations: The Liver-Lung Spectrum in HHT American Thoracic Society Meeting Denver, Colorado | 05/2015 |
| A Difficult to Treat Case with Relapsing Granulomatosis with Polyangiitis EULAR International Meeting Rome, Italy | 06/2015 |
| Practical Approach for the Management of Sepsis and Septic Shock Costa Rican Internal Medicine Congress San Jose, Costa Rica | 08/2015 |
| Hypertensive Emergencies 4th Annual Acute Care of the Complex Hospitalized Patient for Nurse Practitioners and Physician Assistants Scottsdale, Arizona | 02/2016 |
| Pulmonary-Renal Syndromes 39th Annual Update in Cardiology & Pulmonology El Paso, Texas | 02/2016 |
| Pulmonary-Renal Syndromes Mayo Clinic and University of Sao Paulo Nephrology Symposium Sao Paulo, Brazil | 03/2016 |
| Update in the Management and Treatment of ANCA-Associated Vasculitis Mayo Clinic and University of Sao Paulo Nephrology Symposium Sao Paulo, Brazil | 03/2016 |
| Identifying Appliances on Chest X-Ray 4th AzVan Annual Spring Symposium - Arizona Vascular Access Phoenix, Arizona | 04/2016 |
| Update in Pulmonary Vasculitis 2016 Multidisciplinary Update in Pulmonary and Critical Care Scottsdale, Arizona | 04/2016 |

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| Thromboembolic Venous Disease Costa Rican Internal Medicine Congress San Jose, Costa Rica | 07/2016 |
| Update in Critical Care Medicine Costa Rican Internal Medicine Congress San Jose, Costa Rica | 07/2016 |
| Vasculitis and Alveolar Hemorrhage 2016 CHEST Board Review - American College of Chest Physicians Phoenix, Arizona | 08/2016 |
| Effusion Confusion 5 th Annual Acute Care of the Complex Hospitalized Patient for Advanced Practitioners Scottsdale, Arizona | 02/2017 |
| Update in Critical Care Medicine 5th Annual Acute Care of the Complex Hospitalized Patient for Advanced Practitioners Scottsdale, Arizona | 02/2017 |
| Diagnosis and Management of Diffuse Alveolar Hemorrhage 9 th Symposium of Intensive Care Medicine Banja Luka, Bosnia and Herzegovina | 05/2017 |
| Practical Approach of Pleural Effusions Annual Costa Rican Internal Medicine Meeting San Jose, Costa Rica | 06/2017 |
| Extra Corporeal Membrane Oxygenation: Basic management Annual Costa Rican Internal Medicine Meeting San Jose, Costa Rica | 06/2017 |
| Interstitial Lung Diseases VII International Actualization Course for the Internal Medicine Board Santiago, Chile | 09/2017 |
| Pulmonary Vascular Disorders VII International Actualization Course for the Internal Medicine Board Santiago, Chile | 09/2017 |
| Poster | |
| Study of lymphomas in HIV patients in Hospital Mexico. LXIII National Medical Congress of Costa Rica. Costa Rica | 11/2001 |
| Cardiovascular Risk Factors in Hypertensive Costa Rican patients. XVth Scientific Meeting of the Inter-American Society of Hypertension San Antonio, Texas | 04/2003 |

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| Metanephrines and Renin-Aldosterone in Preeclamptic Costa Rican Women. XVth Scientific Meeting of the Inter-American Society of Hypertension San Antonio, Texas | 04/2003 |
| A comparison of blood glucose versus urine glucose self monitoring on metabolic control in Type 2 diabetic patients. 18th International Diabetes Federation Congress Paris, France | 08/2003 |
| Clinical assessment and risk factors for delay in complete resolution of diabetic foot ulcer in Type 2 diabetic patients. 18th International Diabetes Federation Congress Paris, France | 08/2003 |
| Study of the relationship between ghrelin and leptin in obese patients with and without acanthosis nigricans. 18th International Diabetes Federation Congress Paris, France | 08/2003 |
| Boosted-atazanavir versus efavirenz: a retrospective review of two common once a day regimens in treatment-naïve patients from a large county clinic in Houston. 16th International AIDS Conference Toronto, Ontario, Canada | 08/2006 |
| Accuracy of the physical exam in the differentiation of shock syndromes. ACCP CHEST meeting Chicago, Illinois | 10/2007 |
| Epidemiology and clinical characteristics of coma in Olmsted County, Minnesota: a retrospective population-based study. 37th Critical Care Congress of the Society of Critical Care Medicine. Hawaii | 02/2008 |
| Epidemiology of acute and acute on chronic liver failure admitted to intensive care unit in Olmsted County. 37th Critical Care Congress of the Society of Critical Care Medicine. Hawaii | 02/2008 |
| Epidemiology of acute kidney injury in the ICU defined by the RIFLE criteria in Olmsted County, Minnesota: a retrospective population-based study. 37th Critical Care Congress of the Society of Critical Care Medicine. Hawaii | 02/2008 |
| Epidemiology of Respiratory Failure and Mechanical Ventilation in Olmsted County, Minnesota. 37th Critical Care Congress of the Society of Critical Care Medicine. Hawaii | 02/2008 |

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| Impact of nicotine replacement therapy on sedation, delirium, and pain in smokers admitted to a medical ICU. 37th Critical Care Congress of the Society of Critical Care Medicine. Hawaii | 02/2008 |
| ICU Data Mart: Informatics Infrastructure for Automatics Calculation of Critical Care Prognostic Scores. 2008 AMIA Summit on Translational Bioinformatics San Francisco, California | 03/2008 |
| Risk factors for the development of acute lung injury in patients with septic shock: an observational cohort study. 28th International Symposium on Intensive Care and Emergency Medicine Brussels, Belgium | 03/2008 |
| Epidemiology of Cardiogenic Shock Requiring Intensive Care Admission in Olmsted County, Minnesota. 2008 American Thoracic Society (ATS) International Conference Toronto, Ontario, Canada | 05/2008 |
| Epidemiology of Hypovolemic Shock Requiring ICU Admission in Olmsted County, MN. 2008 American Thoracic Society (ATS) International Conference Toronto, Ontario, Canada | 05/2008 |
| Epidemiology of organ failures and life support interventions in Olmsted County, Minnesota. 2008 American Thoracic Society (ATS) International Conference Toronto, Ontario, Canada | 05/2008 |
| Epidemiology of overt disseminated intravascular coagulation in critically ill adults from Olmsted County, MN. 2008 American Thoracic Society (ATS) International Conference Toronto, Ontario, Canada | 05/2008 |
| Incidence of Septic Shock in Olmsted County, MN, Based on Clinical Data. 2008 American Thoracic Society (ATS) International Conference Toronto, Ontario, Canada | 05/2008 |
| Validation of Computerized System for Identification of Patients with Acute Lung Injury. 2008 American Thoracic Society (ATS) International Conference Toronto, Ontario, Canada | 05/2008 |
| Compliance with vasopressor use of early goal directed therapy (EGDT) is not associated with decreased mortality in severe sepsis/septic shock. International Sepsis Forum Granada, Spain | 11/2008 |

- Diabetes Mellitus as a protective factor for the development of acute lung injury in Olmsted county, MN: A retrospective population-based study. 01/2009
38th Critical Care Congress of the Society of Critical Care Medicine
Nashville, Tennessee
- Frequency and outcome of acute lung injury in patients with pneumonia admitted to the intensive care unit: population-based study. 01/2009
38th Critical Care Congress of the Society of Critical Care Medicine
Nashville, Tennessee
- Utilization of ICU services in a suburban community: a retrospective population-based study. 01/2009
38th Critical Care Congress of the Society of Critical Care Medicine
Nashville, Tennessee
- Chronic use of Angiotensin Pathway Inhibitors is associated with a decreased risk of Acute Respiratory Distress Syndrome. 05/2009
2009 American Thoracic Society (ATS) International Conference
San Diego, California
- Comparison of International Classification of Disease-Ninth Revision (ICD-9) Coding with Retrospective Case review for the diagnosis of Acute Respiratory Distress Syndrome. 05/2009
2009 American Thoracic Society (ATS) International Conference
San Diego, California
- Comparison of International Classification of Disease-Ninth Revision (ICD-9) Coding with Retrospective case review for the Diagnosis of Septic Shock. 05/2009
2009 American Thoracic Society (ATS) International Conference
San Diego, California
- Derivation of a lung injury prediction score (LIPS) to identify patients at high risk of acute respiratory distress syndrome (ARDS) at the time of hospital admission. 05/2009
2009 American Thoracic Society (ATS) International Conference
San Diego, California
- Diabetes Mellitus is a Protective Factor for the Development of Acute Respiratory Distress Syndrome only in Sepsis. 05/2009
2009 American Thoracic Society (ATS) International Conference
San Diego, California
- Does Tobacco Smoking Increase the Risk of Acute Respiratory Distress Syndrome?: A Population Based Study. 05/2009
2009 American Thoracic Society (ATS) International Conference
San Diego, California
- Incidence of Pediatric Critical Illness in a Geographically Defined Population. 05/2009
2009 American Thoracic Society (ATS) International Conference
San Diego, California

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| Timing to The Onset of Acute Respiratory Distress Syndrome in a Population Based Sample. 2009 American Thoracic Society (ATS) International Conference San Diego, California | 05/2009 |
| CSF pleural effusion after VP shunt revision. 2009 CHEST meeting, American College of Chest Physicians (ACCP) San Diego, California | 10/2009 |
| Inflammatory Bowel Disease with Bronchial involvement. 2009 CHEST meeting, American College of Chest Physicians (ACCP) San Diego, California | 10/2009 |
| An unusual cause of chronic cough and halitosis. 2010 American Thoracic Society (ATS) International Conference New Orleans, Louisiana | 05/2010 |
| Epidemiology of acute kidney injury in the ICU defined by the AKIN criteria in Olmsted County, Minnesota: a population-based study. 2010 American Thoracic Society (ATS) International Conference New Orleans, Louisiana | 05/2010 |
| Predictors of acute kidney injury in septic shock patients in the era of early goal-directed therapy. 2010 American Thoracic Society (ATS) International Conference New Orleans, Louisiana | 05/2010 |
| The different contributions of various parameters to the diagnosis of acute lung injury. 2010 American Thoracic Society (ATS) International Conference New Orleans, Louisiana | 05/2010 |
| Hepatopulmonary Syndrome: Natural history, medical therapy, liver transplantation and survival. 2010 European Respiratory Society Barcelona, Spain | 09/2010 |
| Development of an electronic surveillance system for acute kidney injury in the Intensive Care Unit: an 'AKI sniffer.' 2010 American Medical Informatics Association Washington, District of Columbia | 11/2010 |
| Rituximab for Churg-Strauss Syndrome with renal involvement. 2010 American Nephrology Society/Renal Week Denver, Colorado | 11/2010 |
| Antiplatelet therapy and disseminated intravascular coagulation in septic shock patients: propensity score analysis. 2011 American Thoracic Society (ATS) International Conference. Denver, Colorado | 05/2011 |

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| Prediction model for disseminated intravascular coagulation in patients with septic shock. 2011 American Thoracic Society (ATS) International Conference. Denver, Colorado | 05/2011 |
| Statin therapy is associated with decreased hospital mortality in patients with severe sepsis and septic shock. 2011 CHEST. American College of Chest Physicians (ACCP) Honolulu, Hawaii | 10/2011 |
| Association between delays in central venous catheter utilization and organ dysfunction in patients with severe sepsis and septic shock. 41st Critical Care Congress, Society of Critical Care Medicine. Houston, Texas | 02/2012 |
| Do neuromuscular blockers in acute respiratory distress syndrome reduce mortality: a systematic review and meta-analysis. 41st Critical Care Congress, Society of Critical Care Medicine. Houston, Texas | 02/2012 |
| Resolution of portopulmonary hypertension (POPH) following liver transplantation European Respiratory Society Vienna, Austria | 09/2012 |
| The co-operative network of critical care knowledge translation for thromboprophylaxis (CONECCKT-T): A multicenter audit Society of Critical Care Medicine San Juan, Puerto Rico | 01/2013 |
| Bleeding Twist: An Unusual Case of Lower Gastrointestinal Bleeding American Thoracic Society Meeting San Diego, California | 05/2014 |
| Deep Vein Thrombosis and Catheter-Related Bloodstream Infection are Uncommon Following Peripherally-Inserted Central Catheter and Short-Term Central Venous Catheter Placement in the Medical ICU American Thoracic Society Meeting San Diego, California | 05/2014 |
| Development and Validation of an Electronic Surveillance Tool for Acute Kidney Injury in Intensive Care Unit American Thoracic Society Meeting San Diego, California | 05/2014 |
| Diffuse Alveolar Hemorrhage Secondary to ANCA-Associated Vasculitis: Predictors of Respiratory Failure and Clinical Outcomes American Thoracic Society Meeting San Diego, California | 05/2014 |

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| Efficacy of Methotrexate for Remission Induction and Maintenance in Granulomatosis with Polyangiitis in Routine Clinical Practice American Thoracic Society Meeting San Diego, California | 05/2014 |
| Isolated Pauciimmune Pulmonary Capillaritis Successfully Treated with Rituximab American Thoracic Society Meeting San Diego, California | 05/2014 |
| Pleural Effusion Size as a Prognostic Marker in Patients with Malignant Pleural Effusion: A Retrospective Cohort Study American Thoracic Society Meeting San Diego, California | 05/2014 |
| Unusual Cause of Subcentimeter Bilateral Pulmonary Nodules American Thoracic Society Meeting San Diego, California | 05/2014 |
| Association of Cytochrome P450 Polymorphisms and Outcomes in Patients with ANCA-Associated Vasculitis Treated with Cyclophosphamide 17th International Vasculitis and ANCA Workshop London, United Kingdom | 04/2015 |
| Biopsy-Proven Pulmonary Capillaritis: A Retrospective Study of Etiologies Including an In-Depth Look at Isolated Pulmonary Capillaritis American Thoracic Society Meeting Denver, Colorado | 05/2015 |
| Improving the Accuracy of Cardiovascular Component of the Sequential Organ Failure Assessment Score American Thoracic Society Meeting Denver, Colorado | 05/2015 |
| Cardiac Tamponade: An Uncommon Presentation of Granulomatosis With Polyangiitis American College of Chest Physicians Meeting Montreal, Quebec, Canada | 06/2015 |
| Simultaneous LVAD Thrombosis and Ischemic Stroke Treated Successfully with Alteplase 45th Society of Critical Care Meeting Orlando, Florida | 02/2016 |
| Diffuse Alveolar Hemorrhage Secondary to ANCA-Associated Vasculitis: Role of Plasma Exchange and Induction of Remission Therapy American Thoracic Society San Francisco, California | 05/2016 |

Regional**Poster**

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| Kava kava hepatitis Southeast Region Associate Meeting of the American College of Physician Houston, Texas | 06/2006 |
| Myositis due to Red Yeast Rice supplement. Southeast Region Associate Meeting of the American College of Physician Houston, Texas | 06/2006 |
| Assessment of kidney injury defined by the RIFLE criteria in critically ill patients. ACCP CHEST meeting Chicago, Illinois | 10/2007 |
| Low baseline serum creatinine concentration is associated with mortality in critically ill patients independent of body mass index. ACCP CHEST meeting Chicago, Illinois | 10/2007 |
| In hospital mortality and plasma biomarkers in acute lung injury (ALI)/acute respiratory distress syndrome (ARDS) in the era of lung protective ventilation. ACCP CHEST meeting Philadelphia, Pennsylvania | 10/2008 |
| Incidence and outcome of tracheostomy and prolonged mechanical ventilation in Olmsted County, MN. ACCP CHEST meeting Philadelphia, Pennsylvania | 10/2008 |

Research Interests

My current research projects focus mainly in critical care medicine, ANCA-associated vasculitis and Pulmonary Vascular diseases.

07/2017- Inhaled vs. early systemic steroids in pneumonia (INVEST PNEUMONIA Trial)

06/2017- Re-Evaluating the Inhibition of Stress Erosions and prophylaxis against gastrointestinal bleeding in the critically ill (REVISE) trial

06/2017- Diarrhea, Interventions, Consequences and Epidemiology in the Intensive Care Unit

07/2015- Use of PICC Lines in the management of septic shock patients

06/2014- Probiotics to Prevent Severe Pneumonia and Endotracheal Colonization: A Pilot Study

01/2013- Collaborative Network for Critical Care Knowledge Translation-Thromboprophylaxis (CONECCKT-T).

07/2013- Portopulmonary hypertension: Mayo Clinic Three site Study

01/2012 – Prospective evaluation of Lung Injury Risk Factors in Olmsted County, Minnesota

01/2011 - Vasculitis Clinical Research Consortium Genetic Repository One-Time DNA Protocol

01/2011 - Plasma Exchange and Glucocorticoid Dosing in the Treatment of ANCA-Associated Vasculitis: A Multicenter Randomized Controlled Trial

01/2011 - Vasculitis Clinical Research Consortium (VCRC)Churg-Strauss Syndrome (CSS)

01/2011 - Rare Disease Clinical Research Network (VCRC) Longitudinal Protocol for Granulomatosis with Polyangiitis and Microscopic Polyangiitis Vasculitis Clinical Research Consortium (VCRC)

01/2010 - Long Term B-cell depletion with Rituximab for the management of chronically relapsing Wegener's

Granulomatosis

01/2010 - Acute Kidney Injury in the ICU: epidemiology, risk factors and sniffer development for early diagnosis

01/2010 - Rituximab for therapy of Churg-Strauss syndrome with renal involvement

07/2009 - Oral therapy for Portopulmonary hypertension

01/2008- Predictive and pathogenetic value of plasma biomarkers for organ failure in acute lung injury (ALI)/acute respiratory distress syndrome (ARDS).

7/2007- Epidemiology of Critical Care syndromes in Olmsted county, Minnesota: a population-based study. Co-principal investigator.

Research Grants Awarded**Active Grants****Federal**

| | | |
|-----------------|--|-------------------|
| Co-Investigator | EGPA mepolizumab Study: Anti IL5 and Churg Strauss Syndrome: a double blind, placebo controlled trial. Funded by National Institute of Allergy and Infectious Diseases. (U01 AI 97073) | 08/2013 - 07/2017 |
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Foundation

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| Co-Investigator | An international, open label, randomised controlled trial comparing rituximab with azathioprine as maintenance therapy in relapsing ANCA-associated vasculitis. Funded by Arthritis Foundation. (RITAZAREM11) | 06/2013 - 12/2019 |
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Industry

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| Program Director / Principal Investigator | Prospective, Observational Safety Study of Patients with Granulomatosis with Polyangiitis (Wegener's) or Microscopic Polyangiitis Treated with Rituximab. Funded by Genentech Incorporated. (WA27893) | 06/2012 - 11/2017 |
| Co-Investigator | Evaluating the Use of Polymyxin B Hemoperfusion in a Randomized Controlled Trial of Adults Treated fro Endotoxemia and Septic Shock. Funded by Spectral Diagnostics (US), Inc.. (Protocol SDI-PMX-NA00) | 01/2011 - 01/2014 |

Completed Grants**Federal**

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|-----------------|---|-------------------|
| Co-Investigator | LIPS-A: Lung Injury Prevention Study with Aspirin. Funded by National Heart, Lung, and Blood Institute. (U01 HL 108712) | 09/2011 - 11/2016 |
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Foundation

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| Program Director / Principal Investigator | COllaborative Network for Critical Care Knowledge Translation- Thromboprophylaxis (CONECCKT-T). Funded by Hamilton Health Sciences . (CONECCKT-T) | 04/2012 - 12/2013 |
| Program Director / Principal Investigator | Probiotics to Prevent Severe Pneumonia and Endotracheal Colonization: A Pilot Study. Funded by Canadian Institutes of Health Research-CIHR | 06/2014 - 06/2015 |
| Site Principal Investigator | Re-Evaluating the Inhibition of Stress Erosions and prophylaxis against gastrointestinal bleeding in the critically ill (REVISE) trial. Funded by Canadian Institutes of Health Research-CIHR | 06/2017- |

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2. **Cartin-Ceba R**, Afessa B, Gajic O. Low baseline serum creatinine concentration predicts mortality in critically ill patients independent of body mass index. *Crit Care Med*. 2007 Oct; 35(10):2420-3. PMID:17948336
3. Iscimen R, **Cartin-Ceba R**, Yilmaz M, Khan H, Hubmayr RD, Afessa B, Gajic O. Risk factors for the development of acute lung injury in patients with septic shock: an observational cohort study. *Crit Care Med*. 2008 May; 36(5):1518-22. PMID:18434908 DOI:10.1097/CCM.0b013e31816fc2c0
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6. **Cartin-Ceba R**, Gajic O, Iyer VN, Vlahakis NE. The authors reply:. *Crit Care Med*. 2009 Mar; 37(3):1181. PMID:19237969 DOI:10.1097/CCM.0b013e31819bb7de
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Forthcoming

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