

Manuel J. Rovira-Gonzalez

mroviragonzalez@wellspan.org | New Ringgold, PA | cel: 787 391 3263

EDUCATION:

WellSpan York Hospital, York, PA

Expected June 2023

Internal Medicine Residency

Universidad Central Del Caribe (UCC), Bayamon, PR

May 2020

Doctor of Medicine, MD

LCME, ACGME, and ACCME accredited

Academic Merit Scholarship 2017

The Pennsylvania State University, Reading, PA

May 2014

Bachelor of Science, Genetics and Developmental Biology

Dean's List 2013

ACCOMPLISHMENTS/AWARDS:

- 2015: Guest Speaker at the **Pennsylvania State University** MICRB 410 Principles of Immunology - "Novel method evaluates humoral immune response in patients with immunoglobulin replacement therapy".
- 2013: Recipient of **National Institute of Health Undergraduate Scholarship Program (UGSP)**. A competitive academic scholarship for \$20,000 per academic year and only 19 students nationwide.

RESEARCH EXPERIENCE:

WellSpan York Hospital, York, PA

Jun 2022 - Present

QI project: *Optimal ACEi/ARB dosage for proteinuria and blood pressure in nephrology clinic*

- Ongoing nephrology clinic quality improvement to optimize patient's proteinuria and blood pressure.

Jan 2022 - Present

QI Project: *Effect of early diuretics on ED-to-admission time in acute heart failure patients*

- Ongoing admission quality improvement with early diuretics associated with early admission and less complications in 24 hours in patients with acute heart failure.

Mar 2021 - Jun 2022

QI Project: *Association of remote patient monitoring (RPM) with healthcare use, cost, and outcomes before and during the COVID-19 pandemic*

- RPM was associated with reduced readmissions, overall costs, and improved A1C and blood pressure.

Oct 2020 - May 2021

QI Project: *Discharge orders before noon within the internal medicine residency service*

- Morning discharge rounds increased overall percentage of discharge before noon for the inpatient internal medicine residency service.

U.S. Food and Drug Administration, Silver Spring, MD

July 2017 - Aug 2017

ORISE Medical Student Summer Research Fellow, Center for Drug Evaluation and Research

Supervisor: Venkateswara Simhadri, PhD

- Optimized Seahorse® protocol for macrophages to determine their aerobic and anaerobic metabolism.
- Supervised graduate and undergraduates protocol execution for flow cytometry macrophage phenotype.

U.S. Food and Drug Administration, Silver Spring, MD**August 2015 - July 2016****ORISE Post-Baccalaureate Research Fellow, Center for Drug Evaluation and Research****Supervisor: Venkateswara Simhadri, PhD**

- Led monocyte-derived macrophage project based on expression and function of Fc receptors on different cytokine microenvironments.
- Maintained and calibrated BD LSRFortessa™ X-20 flow cytometer and provided training to five scientists.

National Institute of Health, Clinical Center, Bethesda, MD**June 2014 - July 2015****Senior Student Technician, Dept. of Laboratory Medicine, Immunology****Supervisor: Sergio Rosenzweig, MD/PhD; Thomas Fleisher, MD**

- Conducted two clinical immunology research projects where patient-specific mutations were identified and humoral response was measured using intravenous-immunoglobulin therapy.
- Mastered laboratory techniques such as flow cytometry, western blot, gene sequencing, plasmid design and testing, immunohistochemistry, qPCR, and immunoprecipitation.

Penn State Hershey Medical Center, Hershey, PA**June - July 2013****Summer Research Student, NIH/NIDDK STEP-UP Summer Program****Supervisor: W. Brian Reeves, MD**

- Discovered several early diagnosis biomarkers for Acute Kidney Injury by using mouse models of ischemia-reperfusion injury and ELISA specific for kidney injury cytokine molecules.

PUBLICATIONS/PRESENTATIONS:

- **2022: Rovira Gonzalez M, Pargament R. Methemoglobinemia with dapsone prophylaxis in a patient with minimal change disease.** Cureus. Pending peer review
- **2022: Bhatia V, Parihar A, Rovira-Gonzalez M, et al. Association of remote patient monitoring (RPM) with healthcare use, cost, and outcomes before and during the COVID-19 pandemic**
Pending peer review
- **2021: Discharge orders before noon within the internal medicine residency service**
WellSpan Research Day, York, PA
- **2021: Non-resolving dyspnea: PCP in non-HIV immunocompromised patient**
WellSpan Research Day, York, PA
- **2016: Role of macrophages in the protection provided by ‘universal’ influenza vaccine**
FASEB Meeting, Snowmass Village, CO
- **2015: Tadagavadi RK, Gao G, Wang WW, Gonzalez MR, and Reeves WB.**
Dendritic Cell Protection from Cisplatin Nephrotoxicity is Independent of Neutrophils
Toxins 7(8): 3245-3256
- **2015: Primary Immunodeficiency associated with mutation in DEPTOR**
NIH Postbac Poster Day, Bethesda, MD
- **2014: Novel method evaluates humoral immune response in patients with immunoglobulin replacement therapy**
NIH Postbac Seminar Series, Bethesda, MD
- **2014: Familial Immunodeficiency with Progressive B-cell lymphopenia caused by mutation of transcription factor IKAROS**
NIH Summer Research Program Poster Day, Bethesda, MD
- **2014 & 2013: IL-8, KIM-1 & NGAL as Early Biomarkers for Acute Kidney Injury**
2014: American Chemical Society’s 247th National Meeting, Dallas, TX
2013: STEP-UP Conference at the National Instituted of Health, Bethesda, MD.
2013: Penn State Hershey Summer Undergraduate Research Symposium, Hershey, PA

WORK EXPERIENCE:**George Washington University School of Medicine, Washington, D.C. April 2014 - May 2016***Standardized Patient, Clinical Learning & Simulation Skills Center***Supervisor: Sally Dudley**

- Simulated medical cases and evaluated medical students' interviewing and interpersonal skills by providing constructive feedback.

VOLUNTEER & LEADERSHIP EXPERIENCE:**American Medical Association (AMA), Bayamon PR.****August 2017 - May 2020***President, Medical Student Section at UCC***Supervisor: Leyda Oquendo-Velez, MD**

- Organize, manage, and follow-up on assigned events to board members.
- Pioneer AMA-UCC blog *Upfront Medical News* about medical student's education and communication.
- Coordinate hands-on workshops on pelvic ultrasounds and venipuncture for medical students.
- Establish hypertension interventions in community service clinics and teach accurate blood pressure technique to more than 40 first-year medical students.

PROFESSIONAL MEMBERSHIPS:

- | | |
|-----------------------------------|-----------------------|
| • American College of Physicians | 2018 - Present |
| • American Medical Association | 2016 - Present |
| • American Society of Nephrology | 2016 - Present |
| • New England Journal of Medicine | 2022 - Present |