

Antonio Olivas-Martinez

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E-mail: aolivas@uw.edu

Education

University of Washington, Seattle, WA

PhD, Biostatistics

Expected degree date: Summer 2025

Universidad Nacional Autónoma de México, Mexico City, Mexico

MD, Internal Medicine

January, 2019

Universidad de Sonora, Hermosillo, Mexico

BM, Medicine, Graduated with Highest Honors

June, 2014

Universidad de Sonora, Hermosillo, Mexico

BMath, Mathematics

February, 2008

Work Experience

Fred Hutch Cancer Center, Seattle, WA

Research Assistant

Summer 2022 – Present

University of Washington, Seattle, WA

Research Assistant

Summer 2020 – Present

National Institute of Health Sciences and Nutrition Salvador Zubirán, Mexico City, Mexico

Statistic Analyst, Medical doctor

2015 – 2019

Instituto Mexicano del Seguro Social, Hermosillo, Mexico

General Practitioner

2013 – 2015

Universidad de Sonora, Hermosillo, Mexico

Research Assistant

2007 – 2009

Teaching Experience

Teaching Assistant

- University of Washington, BIOST 540: Longitudinal and Multilevel Data Analysis

Spring 2023

- University of Washington, BIOST 511: Medical Biometry I

Fall 2021

- National Institute of Health Sciences and Nutrition Salvador Zubirán, Biostatistics for Medical Residents

Fall 2018

Tutor in the Department of Biostatistics, University of Washington

- BIOST 522-523: Statistical Inference for Biometry I-II

Fall 2023 – Winter 2024

- STAT 583: Advanced Theory of Statistical Inference III

Spring 2022

- STAT 512-513: Statistical Inference I-II

2021 - 2022

Lecturer

- Mexican Mathematical Olympiad, Algebra; Number Theory

2004 – 2008

Publications

- GBD 2021 Demographics Collaborators. Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950-2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021. *Lancet*. 2024 Mar 11:S0140-6736(24)00476-8. doi: 10.1016/S0140-6736(24)00476-8.
- Friedman DJ, **Olivas-Martinez A**, Dalgaard F, Fudim M, Abraham WT, Cleland JG, Curtis AB, Gold MR, Kutyifa V, Linde C, Tang AS. Relationship between Sex, Body Size, and Cardiac Resynchronization Therapy Benefit: A Patient Level Meta-Analysis of Randomized Controlled Trials. *Heart Rhythm*. 2024 Feb 14. doi.org/10.1016/j.hrthm.2024.01.058

- Braghieri L, **Olivas-Martinez A**, Silvestri EG, Karatasakis A, Li S, Mahr C, Bravo C. The Impact of the 2018 Allocation System Change on Patients Bridged With Durable Left Ventricular Assist Device: An Updated UNOS Registry Analysis. *ASAIO Journal*. 2024 Jan 12;10-97. doi: 10.1097/MAT.0000000000002115
- Rodriguez-Rodriguez S, **Olivas-Martinez A**, Delgado-de la Mora J, Martinez-Benitez B, Garcia-Juarez I, Demichelis-Gomez R. Is iron overload associated with worse outcomes in patients with chronic liver disease undergoing liver transplantation?. *Revista de investigacion clinica; organo del Hospital de Enfermedades de la Nutricion*. 2024 Jan 23. doi: 10.24875/RIC.23000246
- Zeitler EP, Dalgaard F, Abraham WT, Cleland JG, Curtis AB, Friedman DJ, Gold MR, Kutyla V, Linde C, Tang AS, **Olivas-Martinez A**. Benefit of cardiac resynchronization therapy among older patients: A patient-level meta-analysis. *American Heart Journal*. 2024 Jan 1;267:81-90. doi.org/10.1016/j.ahj.2023.11.002
- Fernández-Ramírez A, **Olivas-Martinez A**, Ruiz-Manriquez J, Kauffman-Ortega E, Moctezuma-Velázquez C, Marquez-Guillen E, Contreras AG, Vilatobá M, González-Flores E, Cruz-Martínez R, Flores-García NC. Posttransplantation diabetes mellitus after liver transplant and the impact of family history of diabetes in a Mexican cohort. *Revista de Gastroenterología de México (English Edition)*. 2023 Oct 17. doi.org/10.1016/j.rgmxen.2023.06.002
- Jiménez-Gutiérrez JM, Alonso-Lárraga JO, Hernández-Guerrero AI, Lino-Silva LS, **Olivas-Martinez A**. Efficacy and safety of self-expanding metal stents in patients with inoperable esophageal cancer: a real-life study. *Therapeutic Advances in Gastrointestinal Endoscopy*. 2023 Sep;16: doi.org/10.1177/26317745231200975
- Fudim M, Dalgaard F, Friedman DJ, Abraham WT, Cleland JG, Curtis AB, Gold MR, Kutyla V, Linde C, Ali-Ahmed F, Tang A, **Olivas-Martinez A**, Inoue LYT, Al-Khatib SM, Sanders GD. Comorbidities and clinical response to cardiac resynchronization therapy: patient-level meta-analysis from eight clinical trials. *European Journal of Heart Failure*. 2023 Sep 6. doi.org/10.1002/ejhf.3029
- Antimicrobial Resistance Collaborators. The burden of antimicrobial resistance in the Americas in 2019: a cross-country systematic analysis. *The Lancet Regional Health–Americas*. 2023 Sep 1;25. doi.org/10.1016/j.lana.2023.100561
- Dalgaard F, Fudim M, Al-Khatib SM, Friedman DJ, Abraham WT, Cleland JG, Curtis AB, Gold MR, Kutyla V, Linde C, Young J, Ali-Ahmed F, Tang A, **Olivas-Martinez A**, Inoue LYT, Sanders GD. Cardiac resynchronization therapy in patients with a prior history of atrial fibrillation: Insights from four major clinical trials. *Journal of cardiovascular electrophysiology*. 2023 Sep;34(9):1914-24. doi.org/10.1111/jce.16022
- Lange J, Zhao Y, Gogebakan KC, **Olivas-Martinez A**, Ryser MD, Gard CC, Etzioni R. Test sensitivity in a prospective cancer screening program: a critique of a common proxy measure. *Statistical methods in medical research*. 2023 Jun;32(6):1053-63. doi.org/10.1177/09622802221142529
- GBD Fatty Liver Disease Sustainable Development Goal Collaborators. The global fatty liver disease Sustainable Development Goal country score for 195 countries and territories. *Hepatology*. 2023 Sep 1;78(3):911-28. doi: 10.1097/HEP.0000000000000361
- Corona-Rodarte E, **Olivas-Martinez A**, Solis-Pompa R, Cano-Aguilar LE, Asz-Sigall D, Ferrusco-Ontiveros MD, Soto-Ortiz JA, Burgos-Mora L. Delay in the diagnosis and management of suspicious malignant skin lesions during the COVID-19 pandemic in a reference centre in Mexico. *Journal of the European Academy of Dermatology and Venereology: JEADV*. 2023 Apr 5. doi: 10.1111/jdv.19109
- Friedman DJ, Al-Khatib SM, Dalgaard F, Fudim M, Abraham WT, Cleland JGF, Curtis AB, Gold MR, Kutyla V, Linde C, Tang AS, Ali-Ahmed F, **Olivas-Martinez A**, Inoue LYT, Sanders GD. Cardiac Resynchronization Therapy Improves Outcomes in Patients With Intraventricular Conduction Delay But Not Right Bundle Branch Block: A Patient-Level Meta-Analysis of Randomized Controlled Trials. *Circulation*. 2023 Mar 7;147(10):812-823. doi: 10.1161/CIRCULATIONAHA.122.062124.
- Gasca NC, Reyes-Garza J, Lozano-Esparza S, Orozco-del Pino P, **Olivas-Martinez A**, Ulloa-Pérez E, Garbuno-Inigo A, Arroyo J. Effect of Mexico's vaccination program on Covid-19 cases, hospitalizations, and deaths among older adults in Mexico City. *Salud Publica Mex*. 2022 Jul 8;64(4, jul-ago):424-428. doi: 10.21149/13402.

- Jimenez JV, **Olivas-Martínez A**, et al. Outcomes in Temporary ICUs Versus Conventional ICUs: An Observational Cohort of Mechanically Ventilated Patients With COVID-19–Induced Acute Respiratory Distress Syndrome. *Crit Care Explor*. 2022 Mar 28;4(4):e0668. doi: 10.1097/CCE.0000000000000668.
- Gonzalez-Chagolla A, **Olivas-Martínez A**, et al. Cirrhosis etiology trends in developing countries: Transition from infectious to metabolic conditions. Report from a multicentric cohort in central Mexico. *Lancet Reg Health Am*. 2022 Mar 1;7:100151. doi.org/10.1016/j.lana.2021.100151
- Michel-Chávez A, Chiquete E, Gullías-Herrero A, Carrillo-Pérez DL, **Olivas-Martínez A**, et al. Predictors of mechanical ventilation in Guillain-Barré syndrome with axonal subtypes. *Can J Neurol Sci*. 2023 Mar;50(2):221-227. doi: 10.1017/cjn.2022.19
- Servin-Rojas M, **Olivas-Martínez A**, et al. Liver Transplantation in Mexico. *Clin Liver Dis*. 2022 Feb 1;19(2):53-8. doi: 10.1002/cld.1155.
- Ruiz-Manriquez J, **Olivas-Martínez A**, Chávez-García LC, et al. Prevalence of metabolic-associated fatty liver disease in Mexico and development of a screening tool: the MAFLD-S score. *Gastro Hep Advances*. 2022 Jan 1;1(3):352-8. doi.org/10.1016/j.gastha.2021.12.011
- Antimicrobial Resistance Collaborators. Global burden of bacterial antimicrobial resistance in 2019: a systematic analysis. *Lancet*. 2022 Feb 12;399(10325):629-655. doi: 10.1016/S0140-6736(21)02724-0
- Catalán R, Jiménez-Ceja JV, Rincón-Pedrero R, **Olivas-Martínez A**, et al. Factors Associated with Development of Acute Kidney Injury After Liver Transplantation. *Rev Invest Clin*. 2022 Apr;74(2):906. doi.org/10.24875/ric.21000496.
- Servin-Rojas M, **Olivas-Martínez A**, et al. Impact of the COVID-19 pandemic on the clinical training of last year medical students in Mexico: a cross-sectional nationwide study. *BMC Med Educ*. 2022 Jan 8;22(1):24. doi: 10.1186/s12909-021-03085-w.
- Jiménez-Gutiérrez JM, García-Juárez I, **Olivas-Martínez A**, Ruiz I. One-year outcome of patients with cirrhosis who developed spontaneous bacterial empyema: A cohort study. *J Dig Dis*. 2021;1-7. doi:10.1111/1751-2980.13066
- **Olivas-Martínez A**, Corona-Rodarte E, Nuñez-Zuno A, et al. Causes of erythrocytosis and its impact as a risk factor for thrombosis according to etiology: experience in a referral center in Mexico City. *Blood Res*. 2021 Sep 30;56(3):166-174. doi: 10.5045/br.2021.2021111.
- Servin-Rojas M, **Olivas-Martínez A**, Ramirez-Del Val F, Torres-Gomez A, Navarro-Vargas L, García-Juárez I. Transplant trends in Mexico during the COVID-19 pandemic: Disparities within healthcare sectors. *Am J Transplant*. 2021;00:1–9. doi.org/10.1111/ajt.16801
- Lozano-Cruz OA, Jiménez JV, **Olivas-Martínez A**, et al. Adverse Effects Associated With the Use of Antimalarials During The COVID-19 Pandemic in a Tertiary Care Center in Mexico City. *Front. Pharmacol*. 12:668678. doi: 10.3389/fphar.2021.668678
- Rajme-Lopez S, Crabtree-Ramírez B, Acosta-Medina A, **Olivas-Martínez A**, Bourlon C. HIV-positive patients presenting with peripheral blood cytopenias: Is bone marrow assessment a priority? *Hematol Transfus Cell Ther*. 2022 Oct-Dec;44(4):542-548. doi: 10.1016/j.htct.2021.02.008.
- Kauffman-Ortega E, Ruiz-Manriquez J, **Olivas-Martínez A**, et al. Direct-Acting Antivirals in the Treatment of Hepatitis C Virus Recurrence after Liver Transplantation: Real-life Experience in a Mexican Cohort. *Arch Med Res*. 2021 Oct;52(7):713-718. doi: 10.1016/j.arcmed.2021.04.003.
- Corona-Rodarte E, **Olivas-Martínez A**, Remolina-Bonilla YA, Domínguez-Cherit JG, Lam ET, Bourlon MT. Do we need skin toxicity? Association of immune checkpoint inhibitor and tyrosine kinase inhibitor-related cutaneous adverse events with outcomes in metastatic renal cell carcinoma. *Int J Dermatol*. 2021 Oct; 60(10): 1242-1247. doi: 10.1111/ijd.15583.
- Martínez-Gamboa A, Niembro-Ortega MD, Torres-González P, Santiago-Cruz J, Velázquez-Zavala NG, Rangel-Cordero A, Crabtree-Ramírez B, Gamboa-Domínguez A, Reyes-Gutiérrez E, Reyes-Terán G, Lozano-Fernandez

VH, Ahumada-Topete VH, Martínez-Ayala P, Manríquez-Reyes M, Ramírez-Hinojosa JP, Rodríguez-Zulueta P, Hernández-León C, Ruíz-Quiñones J, Rivera-Martínez NE, Chaparro-Sánchez A, Andrade-Villanueva J, González-Hernández LA, Cruz-Martínez S, Flores-Barrientos O, Gaytán-Martínez JE, Magaña-Aquino M, Cervantes-Sánchez A, **Olivas-Martínez A**, et al. Diagnostic accuracy of antigen detection in urine and molecular assays testing in different clinical samples for the diagnosis of progressive disseminated histoplasmosis in patients living with HIV/AIDS: A prospective multicenter study in Mexico. *PLoS Negl Trop Dis*. 2021 Mar 8;15(3): e0009215. doi: 10.1371/journal.pntd.0009215.

- Moctezuma-Velázquez O, Miranda-Zazueta G, Ortiz-Brizuela E, González-Lara MF, Tamez-Torres KM, Román-Montes CM, Díaz-Mejía BA, Pérez-García E, Villanueva-Reza M, Tovar-Méndez VH, Medrano-Borromeo C, Martínez-Valenzuela A, Jandete-Medina MA, Martínez-Guerra BA, Uscanga-Domínguez L, Sifuentes-Osornio J, Ponce-de-León A, **Olivas-Martínez A**, Moctezuma-Velázquez C. Low thoracic skeletal muscle area is not associated with negative outcomes in patients with COVID-19. *Am J Phys Med Rehabil*. 2021 May 1;100(5):413-418. doi: 10.1097/PHM.0000000000001716.
- **Olivas-Martínez A**, Cárdenas-Fragoso JL, Jiménez JV, et al. In-hospital mortality from severe COVID-19 in a tertiary care center in Mexico City; causes of death, risk factors and the impact of hospital saturation. *PLoS One*. 2021 Feb 3;16(2):e0245772. doi: 10.1371/journal.pone.0245772
- Kauffman-Ortega E, Ruiz-Manriquez J, **Olivas-Martínez A**, et al. Liver Transplantation and Inflammatory Bowel Disease: Breaking Barriers in a Low-Income Country. *Liver Transpl*. 2021 Feb;27(3):463-464. doi: 10.1002/lt.25928.
- Aguado-Vázquez T, **Olivas-Martínez A**, Cancino-Ramos U, et al. 18f-Fluorodeoxyglucose Positron Emission Tomography Versus Bone Marrow Biopsy for the Evaluation of Bone Marrow Infiltration in Newly Diagnosed Lymphoma Patients. *Rev Invest Clin*. 2021;73(2):79-86. doi: 10.24875/RIC.20000239.
- Ortiz-Brizuela E, Caro-Vega Y, Bobadilla-del-Valle M, Leal-Vega F, Criollo-Mora E, López-Luis BA, Esteban-Kenel V, Torres-Ventimilla E, Galindo-Fraga A, **Olivas-Martínez A**, et al. The Influence of Hospital Antimicrobial Use on Carbapenem Non-Susceptible Enterobacterales Incidence Rates According to Their Mechanism of Resistance: A Time-Series Analysis. *J Hosp Infect*. 2020 Aug;105(4):757-765. doi: 10.1016/j.jhin.2020.06.019.
- Ortiz-Brizuela E, Villanueva-Reza M, González-Lara MF, Tamez-Torres KM, Román-Montes C, Díaz-Mejía B, Pérez-García E, **Olivas-Martínez A**, et al. Clinical and epidemiological characteristics of patients diagnosed with COVID-19 in a tertiary care center in Mexico City: a prospective cohort study. *Rev Invest Clin*. 2020; 72(3): 165-177. doi: 10.24875/RIC.20000211.
- **Olivas-Martínez A**, Barrales-Benítez O, Montante-Montes-de-Oca D, et al. Epidemiology of polycythemia vera in a Mexican population. *memo* 13, 111–117 (2020). doi.org/10.1007/s12254-019-00537-4
- Martínez-Rueda AJ, **Olivas-Martínez A**, Vega-Vega O, Fonseca-Correa JI, Correa-Rotter R. New 2017 American College of Cardiology/American Heart Association High Blood Pressure Guideline Healthcare Impact in Mexico and Other Developing Countries. *Hypertension*. 2019; 73(1): 142-147. doi: 10.1161/HYPERTENSIONAHA.118.11827.
- Vidal-Mayo JJ, **Olivas-Martínez A**, Pérez-Díaz I, et al. Calculated Versus Measured Urine Osmolarity: Accuracy of Estimated Urine Density. *Rev Invest Clin*. 2018; 70(6): 310-318. doi: 10.24875/RIC.18002598.
- **Olivas-Martínez A**, Omel'yanov GA. Uniform in Time Description for Weak Solutions of the Hopf Equation with Nonconvex Nonlinearity. *International Journal of Mathematics and Mathematical Sciences*. 2009; 1-16.

Presentations

WNAR/IMS Annual Meeting, *Anchorage, AK*

June 2023

National Congress of the Mexican College of Internal Medicine, *Merida, Mexico*

November 2018

Kidney Week Meeting of the American Society of Nephrology, *San Diego, CA*

October 2018

National Congress of Mexican Association for the Study of Hematology, *Nuevo Vallarta, Mexico*

April 2018

National Congress of the Mexican College of Internal Medicine, *Leon, Mexico*

November 2017

Service

Global Burden of Disease

Global Burden of Disease Collaboration Network

2022 - Present

UW Statistics and Probability Association

Directed Reading Program for undergraduates, mentor

2022 – Present

UW Biostatistics Department

Faculty search committee, member

2023 – 2024

Admissions Committee, member

2023 – 2024

Educational Policy and Teaching Evaluation Committee, member

2021 – 2023

Alumni Relations Committee, member

2019 – 2022

Mexicans in Statistics and Health

Initiative committed to explain complex scientific issues in everyday language, member

2020 – Present

24th Iberoamerican Mathematical Olympiad

Jury Committee, member

September 2009

46th International Mathematical Olympiad

Jury Committee, member; Short-list Committee, member; Organizer

June – July 2005

Mexican Mathematical Olympiad

Organizer Committee, member

2004 – 2008

Technical Skills

Advanced: R, LaTeX

Intermediate: SPSS

Basic: Stata, Python, Connecting R with SQL, C++, JAGS and Stan.

Scholarships and Awards

University of Washington International Student Tuition Award

UW Graduate School, *Seattle, WA*.

*September 2019 –
June 2020*

School of Public Health Excellence Award

UW School of Public Health, *Seattle, WA*.

2019

Recruitment award for students demonstrating excellence and commitment to public health.

Pat Wahl Endowed Fellowship Award in Biostatistics

UW Department of Biostatistics, *Seattle, WA*.

2019

Award for students with promise to make significant contributions to public health.

José Antonio Martín Mora Award to the Best Graduate Thesis Dissertation

National Institute of Nutrition and Health Sciences Salvador Zubirán, *Mexico City, Mexico*

2019

First place in the 2005 Pierre Fermat National Contest of Mathematics (Undergraduate)

Instituto Politécnico Nacional, *Mexico City, Mexico*

2005

Silver Medal

17th Iberoamerican Mathematical Olympiad, *Mar del Plata, Argentina*

2003

Bronze medal

44th International Mathematical Olympiad, *Tokyo, Japan*

2003

Gold Medal

16th Mexican Mathematical Olympiad (National Contest), *Colima, Mexico*

2002

Silver Medal

15th Mexican Mathematical Olympiad (National Contest), *Oaxtepec, Mexico*

2001

Additional Information

- Spanish (native), English (fluent)
- Enjoy running, dancing, hiking, reading novels, and playing board games.