

## Curriculum Vitae

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## Table of Contents

<b>TRAINING .....</b>	<b>2</b>
GRADUATE AND UNDERGRADUATE EDUCATION .....	2
OTHER RELEVANT COURSES.....	2
<b>TEACHING AND WORKING EXPERIENCE .....</b>	<b>3</b>
TEACHING EXPERIENCE .....	3
WORK EXPERIENCE .....	3
<b>RESEARCH EXPERIENCE .....</b>	<b>3</b>
ORCID, GOOGLE SCHOLAR, AND PUBMED PROFILES .....	3
SELECTED PUBLICATIONS.....	3
MEMBERSHIP TO RESEARCH NETWORKS .....	5
<b>PUBLIC ENGAGEMENT.....</b>	<b>5</b>
<b>AWARDS AND SCHOLARSHIPS .....</b>	<b>6</b>
<b>OTHER SKILLS .....</b>	<b>7</b>

## TRAINING

### Graduate and Undergraduate Education

Ph.D. Candidate in Epidemiology. McGill University. Montreal, Quebec, Canada.	2021/09 - Present.
M.Sc. in Epidemiology. McGill University. Montreal, Quebec, Canada.	2020/09 - 2021/08.
M.Sc. in Medical Sciences, Graduated with Honors. Universidad Nacional Autónoma de México. Mexico City, Mexico.	2018/03 - 2020/08.
Graduate Medical Specialization (Infectious Diseases). Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán / Universidad Nacional Autónoma de México. Mexico City, Mexico.	2016/03 - 2018/02.
Graduate Medical Specialization (Internal Medicine). Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán / Universidad Nacional Autónoma de México. Mexico City, Mexico.	2012/03 - 2016/02.
Medical Doctor, Graduated with Honors. Universidad Autónoma de San Luis Potosí. San Luis Potosí, Mexico.	2003/07 - 2010/06.

### Other Relevant Courses

Key Topics in Causal Inference and Target Trial Emulation courses. Harvard T.H. Chan School of Public Health. Boston, Massachusetts, USA.	2022/06 (2 weeks).
Advanced tuberculosis (TB) diagnosis, Quality of TB care, and TB research methods courses. McGill Summer Institute of Infectious Diseases and Global Health. McGill University. Montreal, Quebec, Canada.	2019/06 (2 weeks).
Workshop for Teachers on Health Sciences. Universidad Nacional Autónoma de México. Mexico City, Mexico.	2018/07 - 2018/08.

## TEACHING AND WORKING EXPERIENCE

### Teaching Experience

Lecturer, Graduate Course: 'Introduction to Causal Inference in Health Sciences'. Master of Science in Medical Science program at the Faculty of Medicine, Universidad Nacional Autónoma de México, Mexico City, Mexico.	2023/01 – Present.
Graduate Lecturer for 'Introduction to Causal Inference in Health Sciences' at the Faculty of Medicine, Universidad Autónoma del Estado de México, Estado de México, México.	2023/01 – 2023/06.
Mentor for the Mexican 'Social Service National Program of Research in Health Sciences.' Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Mexico City, Mexico.	2021/02 - 2022/01.
Mentor for the undergraduate course 'Research Project II' at the Faculty of Medicine, Universidad Panamericana, Mexico City, Mexico.	2019/07 - 2019/12.
Thesis Supervisor for the Internal Medicine Residency Program. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Mexico City, Mexico.	2020/03 - 2021/02.
Thesis Co-supervisor for the Infectious Diseases Residency Program. Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Mexico City, Mexico.	2018/03 - 2019/02.
Undergraduate Lecturer in Physiology. Faculty of Medicine, Universidad Nacional Autónoma de México. Mexico City, Mexico.	2018/09 - 2020/08

### Work Experience

Head of the Research Projects Division of the Directorate of Economic and Social Benefits, Instituto Mexicano del Seguro Social, Mexico City, Mexico.	2023/07 – Present.
Medical Researcher, Department of Medicine and Infectious Diseases, Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Mexico City, Mexico.	2020/09 - 2023/12.
Attending Physician, Department of Medicine, Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, Mexico City, Mexico.	2018/09 - 2020/08.

## RESEARCH EXPERIENCE

### ORCID, Google Scholar, and PubMed Profiles

<a href="#">Google Scholar</a>
<a href="#">PubMed</a>
<a href="#">ORCID</a>

### Selected Publications

Hernandez-Avila M, <b>Ortiz-Brizuela E</b> , Tamayo-Ortiz M, Zepeda-Tello R, Gutierrez-Diaz H, Barros-Sierra Cordera D, Vieyra-Romero W, Real-Ornelas GA, Méndez Aranda M, Heras Gómez A. Assessing the real-world effectiveness of five SARS-CoV-2 vaccines in a cohort of Mexican pensioners: a nationwide nested test-negative design study. <a href="#">Lancet Reg Health Am. 2023 Oct 19;27:100612</a> . doi: 10.1016/j.lana.2023.100612. PMID: 37886231.
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Antimicrobial Resistance Collaborators. The burden of antimicrobial resistance in the Americas in 2019: a cross-country systematic analysis. <i>Lancet Reg Health Am.</i> 2023 Aug 8;25:100561. doi: 10.1016/j.lana.2023.100561. Erratum in: <a href="#">Lancet Reg Health Am. 2023 Nov 10;28:100632</a> . PMID: 37727594.
<b>Ortiz-Brizuela E</b> , Apriani L, Mukherjee T, Lachapelle-Chisholm S, Miedy M, Lan Z, Korobitsyn A, Ismail N, Menzies D. Assessing the Diagnostic Performance of New Commercial Interferon- $\gamma$ Release Assays for Mycobacterium tuberculosis Infection: A Systematic Review and Meta-Analysis. <a href="#">Clin Infect Dis. 2023 Jun 8;76(11):1989-1999</a> . doi: 10.1093/cid/ciad030. PMID: 36688489.
<b>Ortiz-Brizuela E</b> , Menzies D, Behr MA. Testing and Treating Mycobacterium tuberculosis Infection. <a href="#">Med Clin North Am. 2022 Nov;106(6):929-947</a> . doi: 10.1016/j.mcna.2022.08.001. PMID: 36280337.
Antimicrobial Resistance Collaborators. Global burden of bacterial antimicrobial resistance in 2019: a systematic analysis. <a href="#">Lancet. 2022;399(10325):629-655</a> . DOI: 10.1016/S0140-6736(21)02724-0.
Yanes-Lane M, <b>Ortiz-Brizuela E</b> , Campbell JR, Benedetti A, Churchyard G, Oxlade O, Menzies D. Tuberculosis preventive therapy for people living with HIV: A systematic review and network meta-analysis. <a href="#">PLoS Med. 2021;18(9): e1003738</a> . DOI: 10.1371/journal.pmed.1003738.
Use of alternative interferon-gamma release assays for the diagnosis of TB infection: WHO policy statement. Geneva: World Health Organization; 2022. Licence: CC BY-NC-SA 3.0 IGO. ( <a href="#">website link</a> ).
<b>Ortiz-Brizuela E</b> , Menzies D. Tuberculosis active case-finding: looking for cases in all the right places? <a href="#">Lancet Public Health. 2021;6(5):e261-e262</a> . DOI: 10.1016/S2468-2667(21)00048-7.
Vargas-Vázquez A, Bello-Chavolla OY, <b>Ortiz-Brizuela E</b> , et al. Impact of undiagnosed type 2 diabetes and pre-diabetes on severity and mortality for SARS-CoV-2 infection. <a href="#">BMJ Open Diabetes Res Care. 2021;9(1):e002026</a> . DOI: 10.1136/bmjdr-2020-002026.
Bello-Chavolla OY, Antonio-Villa NE, <b>Ortiz-Brizuela E</b> , et al. Validation and repurposing of the MSL-COVID-19 score for prediction of severe COVID-19 using simple clinical predictors in a triage setting: The Nutri-CoV score. <a href="#">PLoS One. 2020;15(12):e0244051</a> . DOI: 10.1371/journal.pone.0244051.
Oh CE, <b>Ortiz-Brizuela E</b> , Bastos ML, Menzies D. Comparing the Diagnostic Performance of QFT-Plus to Other Tests of Latent Tuberculosis Infection: A Systematic Review and Meta-analysis. <a href="#">Clin Infect Dis. 2021;73(5):e1116-e1125</a> . DOI: 10.1093/cid/ciaa1822.
<b>Ortiz-Brizuela E</b> , Caro-Vega Y, Bobadilla-Del-Valle M, 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. <a href="#">J Hosp Infect. 2020;105(4):757-765</a> . DOI: 10.1016/j.jhin.2020.06.019.
<b>Ortiz-Brizuela E</b> , Villanueva-Reza M, González-Lara MF, et al. Clinical and epidemiological characteristics of patients diagnosed with COVID-19 in a tertiary care center in Mexico City: a prospective cohort study. <a href="#">Rev Invest Clin. 2020;72(4):252-258</a> . DOI: 10.24875/RIC.20000211.
<b>Ortiz-Brizuela E</b> , et al. Acute Cholangitis After Bilioenteric Anastomosis for Bile Duct Injuries. <a href="#">J Gastrointest Surg. 2017;21(10):1613-1619</a> . DOI: 10.1007/s11605-017-3497-8.
<b>Ortiz-Brizuela E</b> , et al. Acute Appendicitis After Kidney Transplantation: Experience at a Tertiary Care Hospital in Mexico City. <a href="#">Exp Clin Transplant. 2018;16(2):156-159</a> . DOI: 10.6002/ect.2016.0312.

## Membership to Research Networks

Member of the Global Burden of Disease Collaborator Network. Institute for Health Metrics and Evaluation, University of Washington. Seattle, United States of America.	2022/04 - Present.
Member of the “Red temática de investigación y vigilancia de la farmacorresistencia (INVIFAR)”. Universidad Nacional Autónoma de Nuevo León. Monterrey, Nuevo León, Mexico.	2020/01 - Present.

## PUBLIC ENGAGEMENT

<p><b>Date:</b> 2022/09. <b>Type:</b> Public dissemination of science. <b>Activity:</b> Educational article “Vacunación Contra SARS-CoV-2: Historia, Mitos y Realidades” (Vaccination Against SARS-CoV-2: History, Myths, and Facts,” <a href="#">Revista Digital Universitaria. 2022, 23(5): 1-10</a>. <b>Description:</b> Other physicians and I wrote this article to combat vaccine hesitancy. We described in lay terms the history of vaccines, their development processes, and the benefits and risks of the COVID-19 vaccines available in Mexico.</p>
<p><b>Date:</b> 2022/06. <b>Type:</b> Public dissemination of science. <b>Activity:</b> <a href="#">Educational video “Resistencia a los Antibióticos, una Pandemia Silenciosa” (“Antibiotic Resistance, a Silent Pandemic”)</a>; “Espacio Azul y Oro” Magazine. <b>Description:</b> In this video, I explained the origins and consequences of antimicrobial resistance. Moreover, I also describe some practical actions to combat this problem.</p>
<p><b>Date:</b> 2020/08. <b>Type:</b> Other educational activities. <b>Activity:</b> Conference “What do we know about COVID-19?” (Colegio del Pilar. Mexico City, Mexico). <b>Description:</b> This was a conference for parents of school-aged children where I explained the ins and outs of COVID-19.</p>
<p><b>Date:</b> 2020/05. <b>Type:</b> Public dissemination of science. <b>Activity:</b> <a href="#">Educational video entitled “Evaluación Pronóstica del Paciente con COVID-19” (“Prognostic Evaluation of COVID-19 Patients”)</a>. <b>Description:</b> The Carlos Slim Foundation directed this video to share our findings regarding COVID-19 prognostic factors early in the pandemic (<a href="#">Rev Invest Clin. 2020;72(4):252-258</a>).</p>
<p><b>Date:</b> 2019/01 - 2021/12. <b>Type:</b> Other educational activities. <b>Activity:</b> Speaker in the “Antimicrobial Resistance” course of the online continuing medical education program MCare. <b>Description:</b> This course aimed to train general practitioners in antimicrobial resistance (<a href="#">link to the syllabus</a>).</p>
<p><b>Date:</b> 2017/04. <b>Type:</b> Other academic activities. <b>Activity:</b> Member of the “1st Mexican Consensus on Vaccination in Adults” panel (Reference: <a href="#">Gutiérrez-Robledo LM, et al. Gac Med Mex. 2017;153:5-70</a>). <b>Description:</b> I reviewed the recommendations of diphtheria, tetanus, and pertussis vaccines.</p>
<p><b>Dates:</b> 2006/12 - 2015/04. <b>Type:</b> Volunteering. <b>Activity:</b> <a href="#">Member of the non-profit medical organization MEDspei</a>. <b>Description:</b> We offered medical counsel and disseminated health messages to marginalized communities in San Luis Potosí, Mexico.</p>

## AWARDS AND SCHOLARSHIPS

<b>Scholarship:</b> Doctoral Training Scholarship - Fonds de recherche du Québec – Santé (FRQS) <b>Description:</b> Scholarship granted by the Fonds de recherche du Québec (FRQ) to full-time doctoral students demonstrating academic excellence and potential for significant contributions in their field of research.	2023/05 – Present.
<b>Award:</b> José Antonio Martín Mora (2021). <b>Description:</b> I was awarded second place in the graduate thesis competition in the category for M.Sc. and Ph.D. students at the Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán (National Institute of Medical Sciences and Nutrition Salvador Zubirán). This recognition was for the project entitled 'The Influence of Hospital Antimicrobial Use on Carbapenem-Non-Susceptible Enterobacterales Incidence Rates According to Their Mechanism of Resistance: A Time-Series Analysis.' The final report of this work has been published as: Ortiz-Brizuela E et al. J Hosp Infect. 2020 Aug;105(4):757-765. DOI: 10.1016/j.jhin.2020.06.019.	2021/02.
<b>Award:</b> Dr. Juan Rull Award (2020). <b>Description:</b> I received this award in recognition of exceptional work at the Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán. The 2020 edition was bestowed upon physicians who voluntarily provided medical care to COVID-19 patients during the initial waves of the pandemic. For more information about this award, please refer to the following news article: <a href="https://www.saludiarario.com/conoces-al-hombre-detras-del-premio-medico-juan-rull/">https://www.saludiarario.com/conoces-al-hombre-detras-del-premio-medico-juan-rull/</a> ."	2021/02.
<b>Award:</b> Second place in the 6 <sup>th</sup> SOMETH Congress poster competition. <b>Description:</b> Award given by the Mexican Society of Thrombosis and Hemostasis (SOMETH) for the work entitled: "Clinical Characteristics and Outcomes in Hospitalized Patients with COVID-19 Who Developed Thrombocytosis".	2021/09.
<b>Award:</b> M.Sc. in Medical Sciences, Graduated with Honors. <b>Description:</b> Awarded by the Universidad Nacional Autónoma de México in recognition of excellent grades throughout the study program and an exceptional thesis defense.	2020/09.
<b>Award:</b> National Researcher Level 1 (2020). <b>Description:</b> I have been a member of the "Sistema Nacional de Investigadores (SNI) " (National System of Researchers) in Mexico since January 2020. The SNI is a program of the governmental agency "Consejo Nacional de Humanidades, Ciencias y Tecnologías" (National Council of Humanities, Sciences, and Technologies), dedicated to promoting both the quantity and quality of research.	2020/01 - Present.
<b>Award:</b> Chief of Internal Medicine Residents. <b>Description:</b> This award was presented by the Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán in recognition of excellent leadership, as well as superior administrative and clinical skills demonstrated during residency.	2015/03 - 2016/02.
<b>Scholarship:</b> Carlos Slim Research Scholarship Awardee. <b>Description:</b> This award was conferred by the Carlos Slim Foundation on medical residents who undertake research projects aimed at improving public health in Mexico. For more information about this scholarship, please refer to the following link: <a href="https://mextudia.com/becas/fundacion-carlos-slim/">https://mextudia.com/becas/fundacion-carlos-slim/</a> ."	2016/03 - 2017/02 and 2015/03 - 2016/02

<b>Award:</b> Exemplary Students Medal. <b>Description:</b> This award, presented by the Universidad Autónoma de San Luis Potosí (Autonomous University of San Luis Potosí) and the “Fundación Trayectoria de Éxito” (Path of Success Foundation), recognizes undergraduate and graduate students from San Luis Potosí, México, for their exceptional academic performance and dedication to society.	2011/06.
<b>Award:</b> M.D., Graduated with Honors. <b>Description:</b> Awarded by the Universidad Autónoma de San Luis Potosí for obtaining excellent grades throughout the program and for an outstanding professional exam.	2010/06.
<b>Award:</b> First Place in the 12th Summer of Science Poster Competition. <b>Description:</b> This recognition was conferred by the Universidad Autónoma de San Luis Potosí for achieving first place in the Health Sciences category of the poster competition.	2006/08.
<b>Award:</b> Second Place in the 1st National Contest of Biochemistry. <b>Description:</b> This award was conferred by the Universidad Autónoma del Estado de México for achieving second place in the National Biochemistry Contest with the work entitled 'Hyperhomocysteinemia and Atherosclerosis'.	2005/12.

#### OTHER SKILLS

**Computer Skills:** Microsoft Office 365, R statistical language, EndNote, Rayyan QCRI.

**Languages:** English (Conversational) and Spanish (Native Language).

**Personal interests:** Family, music, and running.