

# Horacio Duarte, MD, MS

## CURRICULUM VITAE

University of Washington/Seattle Children's Research Institute  
Department of Pediatrics, Division of Infectious Diseases  
1900 9<sup>th</sup> Ave, M/S: JMB 587  
Seattle, WA 98101

horacduarte@gmail.com  
857-413-9248

---

### EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution</u>
2002-2006	AB (biological anthropology)	Harvard College
2006-2011	MD	University of Texas Medical School at Houston
2015	Certificate- Program in Clinical Effectiveness	Harvard School of Public Health
2016-2018	MS (health Outcomes, policy, and economics)	University of Washington School of Pharmacy

### ACADEMIC APPOINTMENTS

<u>Dates</u>	<u>Position</u>	<u>Institution</u>
7/1/17-6/30/19	Acting Instructor/Senior Fellow	University of Washington School of Medicine Dept of Pediatrics, Division of Infectious Diseases
7/1/19-present	Acting Instructor	University of Washington School of Medicine Dept of Pediatrics, Division of Infectious Diseases

### CLINICAL TRAINING

<u>Years</u>	<u>Position</u>	<u>Institution</u>
2011-2014	Resident in Pediatrics	University of Washington School of Medicine
2014-2015	Fellow in Pediatric Infectious Diseases	University of Washington School of Medicine

### RESEARCH TRAINING

<u>Years</u>	<u>Position</u>	<u>Institution</u>
2015-2017	Research Fellow, Pediatric Infectious Diseases	University of Washington School of Medicine

### CLINICAL APPOINTMENTS

<u>Years</u>	<u>Position</u>	<u>Institution</u>
2017-present	Attending Physician	Seattle Children's Hospital, Seattle, Washington

### TEACHING EXPERIENCE

<u>Years</u>	<u>Position</u>	<u>Institution</u>
2017-present	Clinical preceptor for medical students, residents, and fellows on the Infectious Diseases Consult Team	Seattle Children's Hospital, Seattle, Washington

### LICENSURE AND CERTIFICATION

2011-present	State of Washington Medical License: Number MD 60476260
2017-present	Certified in General Pediatrics by the American Board of Pediatrics

## MAJOR AWARDS AND HONORS

2006	Josephine L. Murray Traveling Fellowship from Harvard University Office of Career Services
2007	Hispanic American Medical Association of Houston Medical Scholarship, 1 <sup>st</sup> Place
2015-2017	NIH Loan Repayment Program Awardee
2016	University of Washington Summer Institute in Statistics and Modeling in Infectious Diseases Scholarship
2016	Diagnostics Abstract Award, IDWeek Conference, organized by the Infectious Diseases Society of America, New Orleans, LA, October 26-30, 2016
2017	Young Investigator Scholarship, Conference on Retroviruses and Opportunistic Infections, Seattle, WA, February 13-16, 2017
2017	Seattle Children's Hospital Fellow and Resident Research Day Award
2018-2019	NIH Loan Repayment Program Awardee

## MENTORSHIP AND SUPERVISION OF DOCTORAL STUDENTS

Mutita Siriruchatanon, PhD student, July 2018 - present, Industrial Engineering, Cost-effectiveness analysis of pre-ART HIV drug resistance testing in Kenyan children.

Canada Parrish, PhD student, December 2018 - present, Health Services, Effect of pre-ART HIV drug resistance on health-related quality of life in Kenyan adults.

## PEER-REVIEWED PUBLICATIONS

1. McGowan CP, **Duarte HA**, Main JB and Biewener AA. Effects of load carrying on metabolic cost and hindlimb muscle dynamics in guinea fowl (*Numida meleagris*). *J Appl Physiol* (1985) 2006;101(4):1060-1069. PMID16809624. PMC2413411
2. Ginde AA, Acholonu U, **Duarte H** and Camargo CA. Suboptimal Diabetes Preventive Care among Massachusetts Emergency Department Patients: A Missed Opportunity. *Pract Diab Int* 2007;24:197-200
3. Stevens L, **Duarte H** and Park J. Promising implications for integrative medicine for back pain: a profile of a Korean hospital. *J Altern Complement Med* 2007;13(5):481-484. PMID17604551
4. **Duarte H**, Matta JR, Muldoon N, Masur H, Hadigan C and Gharib AM. Non-calcified coronary plaque volume inversely related to CD4(+) T-cell count in HIV infection. *Antivir Ther* 2012;17(4):763-767. PMID22293714. PMC3777235
5. **Duarte HA**, Harris DR, Tassiopoulos K, Leister E, Negrini SF, Ferreira FF, Cruz ML, Pinto J, Allison S, Hazra R and Group NPS. Relationship between viral load and behavioral measures of adherence to antiretroviral therapy in children living with human immunodeficiency virus in Latin America. *Braz J Infect Dis* 2015;19(3):263-271. PMID25743569. PMC4911806
6. Thiara DK, Liu CY, Raman F, Mangat S, Purdy JB, **Duarte HA**, Schmidt N, Hur J, Sibley CT, Bluemke DA and Hadigan C. Abnormal Myocardial Function Is Related to Myocardial Steatosis and Diffuse Myocardial Fibrosis in HIV-Infected Adults. *J Infect Dis* 2015;212(10):1544-1551. PMID25964507. PMC4621251
7. **Duarte HA**, Panpradist N, Beck IA, Lutz B, Lai J, Kanthula R, Kantor R, Tripathi A, Saravanan S, MacLeod IJ, Chung MH, Zhang G, Yang C, Frenkel LM. Current status of point-of care HIV drug resistance. *J Infect Dis* 2017; 216(suppl\_9):S824-S828. PMID29040621
8. **Duarte H**, Beck I, Munyao J, Levine M, Kiptinness C, Chohan B, Sakr S, Chung M, Frenkel L. Implementation of a Point Mutation Assay for HIV Drug Resistance Testing in Kenya. *AIDS*. 2018 Oct 23;32(16):2301-2308. PMID30005020
9. **Duarte HA**, Babigumira JB, Stauffer DC, Enns EA, Shafer RW, Beck I, Garrison LP, Chung MH, Frenkel LM, Bendavid E. Cost-effectiveness analysis of pre-ART HIV drug resistance testing in Kenya. *EClinMed*. 2020: <https://authors.elsevier.com/sd/article/S2589537020300997>

## ABSTRACTS

1. **Duarte H**, Beck I, Munyao J, Levine M, Kiptinness C, Chohan B, Sakr S, Chung M, Frenkel L. Implementation of HIV drug resistance testing in Kenya. **IDWeek** (IDSA) in New Orleans, LA; October 26-30, 2016. Winner of a Diagnostics Abstract Award
2. **Duarte H**, Babigumira J, Stauffer D, Shafer R, Beck I, Garrison L, Chung M, Frenkel L, Bendavid E. Cost-effectiveness analysis of pre-ART HIV drug resistance testing in Kenya. **Conference on Retroviruses and Opportunistic Infections (CROI)** in Seattle, WA; February 13-16, 2017. Young Investigator Award
3. **Duarte HA**, Enns E, Stauffer D, Shafer RW, Bendavid E. Dolutegravir rollout and expected prevalence of pretreatment drug resistance to antiretroviral therapy among Kenyan women. **STI & HIV 2019 World Congress** in Vancouver, Canada; July 14-17, 2019.
4. Siriruchatanon M, Liu S, **Duarte HA**. Cost-Effectiveness Analysis of Pre-ART Drug Resistance Testing for HIV-Infected Children in Kenya. **41<sup>st</sup> Annual Meeting of the Society for Medical Decision Making**; October 23, 2019; Portland, OR.
5. Enns EA, **Duarte HA**. Attributing Benefits of HIV Interventions Portfolios to Prevention and Treatment Effects. **41<sup>st</sup> Annual Meeting of the Society for Medical Decision Making**; October 22, 2019; Portland, OR.

## MANUSCRIPTS IN PROGRESS

1. **Duarte HA**, Parrish C, Chung N, Frenkel L, Babigumira J. Effect of pre-ART HIV drug resistance on health-related quality of life in Kenyan adults.
2. Siriruchatanon M, Liu S, **Duarte HA**. Cost-effectiveness analysis of pre-ART HIV drug resistance testing in Kenyan children.
3. **Duarte HA**, Enns E, Stauffer DC, Shafer RW, Bendavid E. Dolutegravir rollout and expected prevalence of pretreatment drug resistance to antiretroviral therapy among Kenyan women.
4. **Duarte HA**, Enns EA. Attributing Benefits of HIV Interventions Portfolios to Prevention and Treatment Effects.

## RESEARCH SUPPORT

### Active and Planned Research Support

**UW CFAR New Investigator Award** **Duarte (PI)** **09/01/18-08/30/20**

*Health Policy Modeling to Address Pediatric HIV Drug Resistance in Kenya*

This project aims to develop a pediatric HIV simulation model and evaluate strategies aimed at addressing the high prevalence of pretreatment drug resistance in HIV-infected children.

Role: Principal Investigator

Award Amount: \$106,243 over 2 years

**Gilead HIV Research Scholars Award** **Duarte (PI)** **10/01/19-06/30/21**

*Health Policy Modeling to Address Maternal HIV Pretreatment Drug Resistance in Kenya*

This project aims to develop an HIV mother-to-child transmission simulation model and evaluate strategies aimed at addressing the high prevalence of pretreatment drug resistance in HIV-infected women.

Role: Principal Investigator

Award Amount: \$130,000 over 2 years

**PhRMA Foundation Research Starter Grant** **Duarte (PI)** **12/01/19-11/30/20**

*Modeling to Address HIV Pretreatment Drug Resistance in Kenya Among Adolescent Girls*

This project aims to evaluate strategies aimed at addressing the high prevalence of pretreatment drug resistance in HIV-infected Kenyan adolescent girls.

Role: Principal Investigator

Award Amount: \$100,000 over 1 year

Completed Research Support

**5K12HD000850-30**

**Duarte (PI)**

**07/01/15-06/30/17**

*Evaluation of the Feasibility and Economic Impact of HIV Drug Resistance Testing in Kenya*

The main goals of this project are to evaluate a low-cost, novel HIV drug resistance test in Kenya with respect to its 1) feasibility, 2) impact on health-related quality of life, and 3) cost-effectiveness.

Role: Principal Investigator

Award Amount: \$204,660 over 2 years

**T32 AI07140**

**07/01/17-06/30/19**

*Cost-Effectiveness Analysis of Strategies to Address HIV Drug Resistance in Kenya*

This project aims to further develop mathematical models to evaluate the cost-effectiveness of strategies to address HIV drug resistance in resource-limited settings, particularly Kenya.

Role: Training grant recipient