

**BIOGRAPHICAL SKETCH**

NAME JUAREZ, Deborah Taira	POSITION TITLE Associate Professor of Pharmacy Practice, College of Pharmacy, University of Hawaii
eRA COMMONS USER NAME (credential, e.g., agency login)	

**EDUCATION/TRAINING**

INSTITUTION AND LOCATION	DEGREE	MM/YY	FIELD OF STUDY
Amherst College, Amherst, MA	BA	1987	Economics
Woodrow Wilson School, Princeton University, Princeton, NJ	MPA	1991	Domestic Policy
Harvard School of Public Health, Boston, MA	ScD	1995	Health Economics

**A. Personal Statement**

I am an Associate Professor at the University of Hawaii at Hilo, College of Pharmacy and a health economist. I teach courses on health economics, including cost-effectiveness analysis, and biostatistics. My research has focused on medication adherence, cost-effectiveness of cardiovascular interventions, and health disparities, particularly involving Asian and Pacific Americans. I have also worked at the Health Institute at the New England Medical Center examining outcomes from the patient perspective and spent ten years working at Hawaii Medical Service Association analyzing large administrative datasets, including cost and lab data.

**B. Positions and Honors****Positions and Employment**

1995-1997	Health Economist, The Health Institute at New England Medical Center, Boston, MA
1998-1999	Instructor of Medicine (Cardiovascular Division), Harvard Medical School, Boston, MA
1998-1999	Health Economist, Cardiovascular Data Analysis Center, Beth Israel Hospital, Boston, MA
1999-2011	Research Manager, Care Management, Hawaii Medical Service Association, Honolulu, HI
2008-2011	Associate Professor of Health Economics, Department of Public Health Sciences, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI
2008-2010	Specialization Chair, Health Policy and Management, Department of Public Health Sciences, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu, HI
2011-present	Associate Professor of Pharmacy Practice, University of Hawaii at Hilo, College of Pharmacy.

**Other Experience and Professional Memberships**

June 2009	Visiting Lecturer, Fudan University, School of Public Health, Department of Health Economics, Shanghai, China. Taught health economics to graduate students for 3 weeks.
Nov 2010	Visiting Lecturer. Management Center International, Innsbruck, Austria. Taught health economics and health care reform.
Oct 2011	Visiting Lecturer. Management Center International. Innsbruck, Austria. Taught evidence-based medicine and use of guidelines.
Oct 2012	Visiting Lecturer. Chulalongkorn University, College of Pharmacy. Taught cost-effectiveness a three-week portion of a course on cost-effectiveness analysis.
Ongoing	Peer reviewer for publications including: American Journal of Managed Care, American Journal of Hypertension, Journal of Managed Care Pharmacy, Journal of General Internal Medicine, Managed Care Interface, Preventing Chronic Disease, Patient Education and

Program Director/Principal Investigator (Last, First, Middle):

Counseling, Journal of Health Care for the Poor and Underserved, Israel Journal of Health Policy  
1999-present Member, Academy Health  
1997-present Member, American Public Health Association  
2008-present Member, Hawaii Public Health Association  
2010-present Member, International Society for Pharmacoeconomics and Outcomes Research  
2011-present Member, American Association of Colleges of Pharmacy  
June 2012 Judge, ISPOR, Podium Session II, Medication Adherence and Health

### Academic and Professional Honors

2012 Rho Chi Honor Society inductee  
Oct-Nov 2012 Fulbright Specialist Scholar to Thailand

### C. Selected peer-reviewed publications (in chronological order)

1. Seto TB, **Taira DA**, Tsevat J, Manning WJ. Cost-effectiveness of transesophageal echo-guided cardioversion: a decision analytic model for patients admitted to the hospitalized with atrial fibrillation. *J Am Coll Cardiol.* 1997;29:122-30.
2. **Taira DA**, Safran DG, Seto TB, Rogers WH, Kosinski M, Ware JE, Lieberman N, Tarlov AR. Asian-American patient ratings of physician primary care performance. *J Gen Intern Med.* 1997;12:237-42.
3. **Taira DA**, Safran DG, Seto TB, Rogers WH, Tarlov AR. The relationship between patient income and physician discussion of health risk behaviors. *JAMA.* (IF: 30.387) 1997;278:1412-7.
4. Seto TB, Mittleman MA, Davis RB, **Taira DA**, Kawachi I. Seasonal variation in coronary artery disease mortality in Hawaii. *Br Med J.* 1998;316:1946-7.
5. Seto TB, **Taira DA**, Tsevat J, Manning WJ. Cost-effectiveness of TEE-guided cardioversion. *Cardiovascular Review.* 1998;15:50-5.
6. Safran DG, Kosinski M, **Taira DA**, Rogers WH, Ware JE, Lieberman N, Tarlov AR. The Primary Care Assessment Survey: Tests of data quality and measurement performance. *Med Care.* 1998;36:728-39.
7. Safran DG, **Taira DA**, Rogers WH, Kosinski M, Lieberman N, Ware JE, Tarlov AR. Linking primary care performance to valued outcomes of care. *J Fam Pract.* 1998;47:213-20.
8. Seto TB, **Taira DA**, Tsevat J, Manning WJ. Cost-effectiveness of TEE-guided cardioversion. *Cardiovascular Review* 1998;15:50-5.
9. Seto TB, **Taira DA**, Manning WJ. Cardioversion in patients with atrial fibrillation and LA thrombi on TEE: Should TEE be repeated prior to elective cardioversion? A cost-effectiveness analysis. *J Am Soc Echocardiogr.* 1999;12:508-16.
10. **Taira DA.** Improving the health and health care of non-English speaking patients. *J Gen Intern Med* 1999;14:332-3.
11. Safran DG, Rogers WH, Tarlov AR, Inui T, **Taira DA**, Montgomery J, Ware, JE, Slavin CP. Organizational and financial characteristics of health plans: Are they related to primary care performance. *Arch Intern Med* 2000;160:69-76.
12. Seto TB, **Taira DA**, Chauhan M, Berezin R, Ho KKL, Kuntz R, Cohen DJ. Effect of percutaneous coronary revascularization on health-related quality of life in the elderly. *Ann Intern Med.* 2000;132:955-8.

13. Seto TB, Kuwat D, **Taira DA**, Douglas PS, Manning WJ. Physician's recommendations to patients for use of antibiotic prophylaxis to prevent endocarditis. *JAMA*. (IF: 30.387) 2000;284:68-71.
14. **Taira DA**, Seto TB, Ho KKL, Cutlip DE, Berezin R, Kuntz RE, Cohen DJ. The impact of smoking on health-related quality of life following percutaneous coronary revascularization. *Circulation* (IF: 14.948) 2000;102:1369-74.
15. **Taira DA**, Safran DG, Seto TB, Rogers WH, Inui TS, Montgomery J, Tarlov AR. Do patient assessments of primary care differ by patient ethnicity? *Hlth Serv Res* 2001;36(6):1059-1071.
16. **Taira DA**, Iwane K, Yamashita, P, Chung RS. Correlating Physical and Mental Health Status With Satisfaction in a Health Plan. *Managed Care Interface*. 2001;14:51-56.
17. Davis JW, Lee E, **Taira DA**, and Chung RC. Influenza vaccination, hospitalizations, and costs among members of a Medicare cost contract. *Med Care*. 2001; 39(12):1273-80.
18. Cohen DJ, **Taira DA**, Berezin R, Cox DA, Morice MC, Stone GW, Grines CL. Cost-effectiveness of coronary stenting in acute myocardial infarction: Results from the Stent PAMI Trial. *Circulation*. 2001;104:3039-3045.
19. **Taira DA**, Seto TB, Marciel C. Ethnic Disparities in Care Following Acute Coronary Syndromes Among Asian Americans and Pacific Islanders During the Initial Hospitalization. *Cellular and Molecular Biology*. 2001;47(6):1209-1216.
20. **Taira DA**. Patient characteristics and satisfaction for members using acupuncture services. *Hawaii Med J*. 2001 Nov;60(11):291-2.
21. **Taira DA**, Seto TB, Siegrist R, Cosgrove R, Berezin R, Cohen DJ. Comparison of analytic approaches for the economic evaluation of new technologies alongside multicenter clinical trials. *Am Heart J* 2003 Mar;145(3):452-8.
22. **Taira DA**, Iwane KA, Chung RS. Prescription Drugs: Elderly Enrollee Reports of Financial Access, Receipt of Free Samples, and Discussion of Generic Equivalents Related to Type of Coverage. *AJMC* 2003;9:305-312.
23. Chung RS, **Taira DA**, Noh C. Altering Financial Incentives in Multi-Tiered Formulary Systems to Improve Accountability for Outcomes. *J Managed Care Pharm*, 2003;9:360-65.
24. **Taira DA**, Gronley K, Chung R. Patient Characteristics, Health Status, and Health-related Behaviors Associated with Obesity. *Hawaii Medical Journal*. 2004;63(5):150-155.
25. Yanagihara DM, **Taira DA**, Davis J, Gronley K, Marciel C, Lee E, Tice A. Impact of a Health Plan Intervention to Improve Pneumococcal Vaccination in the Elderly. *Managed Care Interface*. 2005;18(9): 25-30.
26. Kajioka Eh, Itoman Em, Li ML, **Taira DA**, Li GG, Yamamoto LG. Pediatric prescription pick-up rates after ED visits. *Am J Emerg Med*. 2005 Jul;23(4):454-8.
27. Lee R, **Taira DA**. Adherence to oral hypoglycemic agents in Hawaii. *Prev Chronic Dis*. 2005 Apr;2(2):1-7.
28. Zhu J, Davis J, **Taira DA**, Yamashita M. Screening rates and characteristics of health plan members who respond to screening reminders. *Prev Chronic Dis*. 2006 Apr;3(2):A56. Epub 2006 Mar 15.

Program Director/Principal Investigator (Last, First, Middle):

29. Davis JW, **Taira DA**, Chung RS. Health Disparities in 30 Indicators of Recommended Clinical Care, *Journal of Healthcare Quality* 2006;28:32-41.
30. Davis JW, **Taira DA**, Chung RS. Variations in clinical practice among the Hawaiian Islands. *Hawaii Med Journal*. 2006;65:226-230.
31. Zhu J, Davis JW, **Taira DA**. The Impact of Visits to New Physicians on Patient Response to Health Screening Reminders. *Medical Care* 2006;28:32-41.
32. **Taira DA**, Wong K, Frech-Tamas F, Chung RS. Copayment Level and Compliance with Antihypertensive Medication: Analysis and Policy Implications for Managed Care. *Am J Manag Care*. 2006 Nov;12(11):678-83.
33. **Taira DA**, Gelber RP, Davis J, Gronley K, Chung RS, Seto TB. Anti-hypertensive Adherence and Drug Class among Asian Pacific Americans. *Ethnicity and Health.*, 2007;12(3):265-281.
34. Berthiaume J, Davis J, **Taira DA**, Thein KK. A managed care organization's use of integrated health management to improve secondary prevention of coronary artery disease. *Am J Manag Care*. 2007;13(3):142-7.
35. Gilmore AS, Zhao Y, Kang N, Ryskina, Legorreta, **Taira DA**, Chung RS. Patient Outcomes and Evidence-Based Medicine in a PPO Setting: A Six-Year Evaluation of a Physician Incentive Program. *Health Services Research*. 2007;42(6):2140-2159.
36. Breton A, **Taira D**, Burns E, O'Leary J, Chung RS. Follow-up Services after an Emergency Department Visit for Substance Abuse. *Am J Manag Care*. 2007;13(9):497-505.
37. Halliday T, **Taira DA**, Davis H, Chan H. Socioeconomic Disparities in Breast Cancer Screening in Hawai'i. *Preventing Chronic Disease* 2007 Oct;4(4):A91. Epub 2007 Sep 15.
38. Davis J, Fujimoto RY, **Juarez DT**, Hodges K, Asam K. Major Depression Associated with Rates of Transition Between Cardiovascular Diseases. *Am J Manag Care*. 2008;14(3):125-129.
39. Kretzer K, **Taira Juarez D**, Davis J. Initial Antihypertensive Prescriptions, Switching Patterns and Adherence Among Insured Patients in Hawai'i. *Hawaii Med J*. 2008;67(4):96-100.
40. **Juarez DT**, Osheroff W. Patient Perceptions of Inter-Provider Coordination of Care. *Hawaii Med J*. 2008;67(5):121-125.
41. Davis J, Fujimoto R, Chan H, **Taira Juarez D**. Factors affecting the influenza vaccination of high risk adults in Hawai'i. *Hawaii Med J*. 2009;68(3): 50-55.
42. Maskarinec G, Erber E, Grandinetti A, Verheus M, Oum R, Hopping B, Schmidt MM, Uchida A, **Juarez DT**, Hodges K, Kolonel LN. Diabetes Incidence Based on Linkages with Health Plans: The Multiethnic Cohort. *Diabetes*. 2009;58:1732-1738.
43. Chen J; Kang N; **Juarez DT**; Hodges K; Chung, RS. The Effect of a PPO Pay-for-Performance Program on Patients with Diabetes. *Am J Manag Care*. 2010;16(1):e11-e20.
44. Chen J; Kang N; **Juarez DT**; Hodges K; Chung, RS. Impact of a Pay-for-performance Program on Low Performing Physicians. *Journal for Health Care Quality*. 2010;32:13-22.

45. **Juarez DT**, Samoa RA, Chung RS, Seto TB. Disparities in Health, Obesity and Access to Care Among An Insured Population of Asian and Pacific Islander Americans in Hawaii. *Hawaii Medical Journal*. Hawaii Med J. 2010 Feb;69(2):42-6.
46. Schwartz SM, Ireland C, Strecher V, Nakao D, Wang C, **Juarez D**. The Economic Value of a Wellness and Disease Prevention Program. *Popul Health Manag*. 2010 Dec;13(6):309-17.
47. Saito E, Davis J, Mau M, Harrigan R, **Juarez DT**. Copayment Level and Drug Switching: Findings for Type 2 Diabetes. *American Journal of Pharmacy Benefits*. Am J Pharm Benefits. 2010;2(6):412-420.
48. Davis J, Fujimoto R, Chan H, **Juarez DT**. Identifying characteristics of patients with low urgency emergency department visits in a managed care setting. *Manag Care*. 2010 Oct;19(10):38-44.
49. Chen JY, Kang N, **Juarez DT**, Yermilov I, Braithwaite RS, Hodges KA, Legorreta A, Chung RS. Heart Failure Patients Receiving ACEIs/ARBs Were Less Likely To Be Hospitalized Or To Use Emergency Care In The Following Year. *Journal for Health Care Quality*. 2011 Jul;33(4):29-36.
50. Davis J, Fujimoto R, Chan H, **Juarez DT**. Adherence with lipid-lowering, antihypertensive, and diabetes medications singly and together. *Am J Pharm Benefits*. 2011;3(3):173-179.
51. Chen JY, Tian H, **Juarez DT**, Yermilov I, Braithwaite RS, Hodges KA, Legorreta A, Chung RS. Does Pay-for-Performance improve cardiovascular care in a "real world" setting? *Am J Med Qual*. 2011 Sep-Oct;26(5):340-8.
52. Davis JW, Chung RS, **Juarez DT**. Prevalence of Comorbid Conditions with Aging Patients with Diabetes and Cardiovascular Disease. *Hawaii Med J*. 2011;70(10):209-14.
53. Ashby J, **Juarez DT**, Berthiaume J, Sibley P, Chung RS. The Relationship of Hospital Quality and Cost Per Case in Hawaii. *Inquiry*. 2012;49:65-74.
54. **Juarez DT**; Davis JW; Brady SK; Chung RS. Prevalence of Coronary Heart Disease and Its Risk Factors Related to Age in Asian, Pacific Islanders, and Caucasians in Hawai'i. *Journal of Healthcare for the Poor and Underserved*. 2012; 23(3):1000-10.
55. **Juarez DT**, Sentell T, Tokumar S, Goo R, Davis J, Mau M. Factors associated with poor glycemic control or wide glycemic variability among diabetes patients in Hawaii, 2006-2009. *Prev Chronic Dis*. 2012;9:120065. PMID: 23017247; PMC: 3475506.
56. Davis J, **Juarez DT**, Hodges K. Relations of ethnicity and body mass index with the development of hypertension and hyperlipidemia. *Ethn Dis*. (IF: 0.921) 2013;23[1]:65–70.
57. **Juarez DT**, Goo R, Tokumar S, Sentell T, Davis JW, Mau MM. Association Between Sustained Glycated Hemoglobin Control and Healthcare Costs. *Am J Pharm Benefits*. 2013;5(2):59-64.
58. **Juarez DT**, Tan C, Davis J, Mau M. Factors affecting sustained medication adherence and its impact on healthcare utilization in patients with diabetes. *J Pharm HSR*. 2013;4(2):89-94.
59. Sentell T, **Juarez DT**, Diabetes-Related Potentially Preventable Hospitalizations in Native Hawaiian, Chinese, Filipino, and Japanese Elderly Compared to Whites in Hawai'i. *Prev Chronic Dis* (IF: 1.956) 2013;10:120340.
60. **Juarez DT**, Tan C, Davis J, Mau M. Using Quantile Regression to Assess Disparities in Medication Adherence. *Am J Health Behav*.(IF: 1.137) 2014;38(1);53-62 (in press).

61. Ma CS, Batz F, **Juarez DT**, Ladao LC. Drug take back in Hawaii: partnership between the University of Hawaii Hilo College of Pharmacy and the Narcotics Enforcement Division. *Hawaii J Med Public Health*. 2014 Jun;73(6):168-71.
  62. Davis J, **Juarez DT**. Obstacles to breast and cervical cancer screening among women still unscreened late in the recommended intervals. *Women's Health Issues (IF: NA)* (in press)
  63. Hu D, **Juarez DT**, Yeboah M, Castillo TP. Interventions to Increase Medication Adherence in African American and Latino Populations: A Literature Review. *Hawaii J Med Public Health*. *Hawaii J Med Public Health*. 2014 Jan;73(1):11-8.
  64. Tan C, Haumea S, **Juarez DT**, Grimm C. A descriptive study of Marshallese and Chuukese patients with diabetes in Hawaii. *Hawaii J Med Public Health*. 2014 Jun;73(6):168-71.
  65. **Juarez DT**, Ma CS, Kumasaka A, Shimada R, Davis J. Failure to Reach Target Glycated A1C Levels Among Patients with Diabetes Who are Adherent to their Anti-Diabetes Medication. *Popul Health Manag. (IF: 1.347)* 2014 Aug;17(4):218-23. doi: 10.1089/pop.2013.0099.
  66. Davis J, Chavez B, **Juarez DT**. Adjustment of diabetes medications in response to increases in hemoglobin a1c: an epidemiologic study. *Ann Pharmacother. (IF: 2.923)* 2014 Jan;48(1):41-7. doi: 10.1177/1060028013517870.
  67. Sentell T, Miyamura J, Ahn HJ, Chen JJ, Seto TB, **Juarez DT**. Potentially preventable Hospitalizations for Congestive Heart Failure among Asian and Pacific Islanders. *J Immigr Minor Health. (IF: 1.264)* 2014 Sep 10.
  68. **Juarez DT**, Williams AE, Chen C, Daida YG, Tateishi S, Trinacty CM, Vogt TM. Factors Affecting Medication Adherence Trajectories for Patients With Cardiovascular Disease. *AJMC (IF: 2.166)* (in press)
  69. **Juarez DT**, Demaris KM, Goo R, Mnatzaganian CL, Smith H. Significance of HbA1c and its measurement in the diagnosis of diabetes mellitus: US experience. *Diabetes Metab Syndr Obes. (IF: NA)* 2014 Oct 20;7:487-94
  70. Goo R, Ma CJ, **Juarez DT**. Disparities in Medication Therapy in Patients with Heart Failure across the State of Hawai'i. *Hawaii J Med Public Health (IF:NA)*; 2015;74:.
  71. Davis J, Starr R, **Juarez DT**. Evidence-based adherence classes for combination anti-hypertensive, lipid-lowering, and anti-diabetic therapy. *AJPB* (in press)
  72. Nakagawa K, Galati A, **Juarez DT**. The excess cost of inter-island transfer of intracerebral hemorrhage patients. *American Journal of Emergency Medicine. (in press)*
  73. **Juarez DT**, Guimaraes A, Seto B, Davis JW. Medicare Reimbursement to Ophthalmologists: A Comparison of Hawaii to Other States. *Hawaii J Med Public Health. (in press)*
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74. **Juarez DT**, Hu D, Davis J, Castillo TP, Yeboah M. The Relationship between Type of Anti-Diabetic Medication and Outcomes of Care in Asian and Pacific Islander Americans. *Journal of Health Disparities Research and Practice. (resubmitted)*

75. Sentell T, Cheng Y, Saito E, Seto TB, Miyamura J, Mau M, **Juarez DT**. The Burden of Diabetes (both Undiagnosed and Diagnosed) in Native Hawaiian and Asian Inpatients (in prep)
76. Hu D, **Juarez DT**, Lin V, Goo R. Reducing Health Disparities Affecting Asian Americans, Native Hawaiians, and Other Pacific Islanders: A Qualitative Study. (submitted)
77. Sentell T, Mortality and length of stay in diabetes-related potentially preventable hospitalizations for Asian American, Pacific Islander, and White elders in Medicare. (in prep)
78. Leslie J, **Juarez DT**. Is occupational type related to obesity risk? A cross-section study of multiethnic insured workers in Hawaii. Health Education and Behavior (submitted Ethnicity and Health)

#### **D. Research Support**

##### **Ongoing Research Support**

###### **14ADVC-64494, Juarez (PI) 06/01/2014 – 11/30/2015**

Hawai'i Community Foundation's LEAHI FUND for Pulmonary Research Award (PI-Juarez)

Goal: To examine patterns of use of e-cigarettes among young adults and to identify areas of likely policy regulation in Hawaii.

###### **P20 MD00173-11 Mau (PI) 9/20/12 - 8/30/13; 3.0 calendar months**

NIH National Center on Minority Health and Health Disparities \$963,791

Goal: The goal of this project is to eliminate health disparities to improve the health and wellness of native and Pacific peoples through research and partnership, increasing opportunities for synergy and collaboration that are trans-disciplinary, innovative and culturally grounded.

Role: Director, Research Training and Education Core; Co-I on pilot study.

###### **RCMI Translational Research Network Yanagihara (PI) 09/01/2012-08/31/2017; 3 calendar months**

NIH National Center on Minority Health and Health Disparities

Goal: To promote networking among researchers from minority institutions

Role: Director of Project Development Division (of the Research Coordinating Center)

##### **Completed**

###### **1R01HS019990-01 Seto (PI) 9/30/10 - 9/29/13 0.6 calendar months**

DHHS, Agency for Healthcare Research and Quality \$357,283

Goal: To enhance Hawaii Hospital Information content by incorporating laboratory values.

Role: Co-Investigator

###### **3 P20 MD000173-09S1 Mau (PI) REVISED 7/31/2010 – 12/31/2012 2.4 calendar months**

NIH National Center on Minority Health and Health Disparities \$975,430

Goal: The goal of this project is to integrate comparative effectiveness research with health disparities approaches to find the best treatments for diabetes and cardiometabolic diseases in racial/ethnic minorities such as native and Pacific people.

Role: Co-investigator

**Funding Agency:** U.S. Army Medical Research and Material Command

7/26/10 – 8/25/12

**Project Title:** "Development of an Evaluation Model to Compare PC Screen-Based vs. High Fidelity Simulation Teaching for Trauma Nursing in Terms of Learning and Cost"

**Purpose:** To evaluate PC screen-based teaching and high fidelity simulation to compare the learning achievements and costs.

**Role:** Co-investigator (10%)

Program Director/Principal Investigator (Last, First, Middle):

**Funding Agency:** National Institute of Diabetes and Digestive and Kidney Diseases 9/1/10 - 8/30/12

**Project Title:** "Reducing Cost-related Medication Non-adherence for Persons with Diabetes"

**Purpose:** To evaluate the cost reduction for diabetic medication non-adherence.

**Role:** Co-investigator (20%)