FINDING A WAY WITH THE WAYFINDER NAVIGATION PROGRAM:

ADDRESSING CHRONIC DISEASE DISPARITIES FEBRUARY 16-18 COFA MIGRANT POPULATIONS IN HONOLULU ANNUAL

HAWAI'I ACADEMY OF Family Physicians

GRAND NANILOA HOTEL

20

SYLVIA NGUYEN

KIARA ARAKAWA TAUM

CHRISTIE IZUTSU, MD FACP

BRYAN BROWN, MD MHS

Disclosures

• none



Learning Objectives

- 1. Evaluate the elative burder of chronic, noncommunicable diseases
- 2. Assess the importance of usingerpreter services for rare languages of the Pacific
- 3. Translate a model of nedical students as patient navigators he novel context of COFA associated patient populations



INTRODUCTION



COFA

- Compacts of Free Association
 - Federated States of Micronesia
 - Republic of the Marshall Islands
 - Republic of Palau
- Military Advantage (US)
- "Non-citizen residents" (COFA)
 - Admission as nonimmigrants
 - Eligible for lawful permanent residence, work, and medical and educational benefits



FEBRUARY 16-18

COFA: History Drives Inequities

- US thermonuclear weapon testing
- Disruption of traditional values
 - Diet
 - Lifestyle
- Migration seeking medical care
 - More high risk/ chronic disease indicators
 - Increased incidence of oral cancers
 - Worse control of chronic diseases
 - "Younger & sicker" patients being hospitalized



CLINIC NEEDS ASSESSMENT



COFA Population Needs Assessment

- Primary care recipients at hospitalased teaching clinic
 - Underserved population
- COFA adults withnative languages preferred language
- Control: adults in the same primary care clinic with English as primary language
 - Excluded Native Hawaiians





Variables

- Assessed problem lists for evalence of chronic diseases
 - Pre-diabetes, DM, CKD, ESRD, hypertension, stroke, cardiomyopathy, asthma/COPD, dyslipidemia
- Most recent labs and vital signs
 - Blood pressure, hA1c, UMA, LDL, total cholesterol, HDL, ASCVD%
- Engagement with medical services
 - ER encounters, hospital admissions, no upcoming appointments, patient portal activation, no sh rate
- Interpreter status





COFA MIGRANTS WITH LIMITED ENGLISH PROFICIENCY (N=353) 🛛 CONTROL (N=1076)

c

FEBRUARY 16-1

HAWAFI ACADEMY OF FAMILY PHYSICIANS

GRAND NANILOA HOTE

NNUAL



COFA MIGRANTS WITH LIMITED ENGLISH PROFICIENCY (N=353) CONTROL (N=1076)

FEBRUARY 16-18

HAWAFI ACADEMY OF Family Physicians



FEBRUARY 16-18

HAWAFI ACADEMY OF Family Physicians



COFA MIGRANTS WITH LIMITED ENGLISH PROFICIENCY (N=353) CONTROL (N=1076)

FEBRUARY 16-18

HAWAFI ACADEMY OF FAMILY PHYSICIANS



COFA MIGRANTS WITH LIMITED ENGLISH PROFICIENCY (N=353) 📃 CONTROL (N=1076)

FEBRUARY 16-18

FAMILY PHYSICIANS



COFA MIGRANTS WITH LIMITED ENGLISH PROFICIENCY (N=353) CONTROL (N=1076)

FEBRUARY 16-18 💘

FAMILY PHYSICIANS

























Results: Interpreter Status Population

FEBRUARY 16-18

HAWAELACADEMY OF FAMILY PHYSICIANS

FEBRUARY 16-18

GRAND NANILOA HOTE

HAWAFI ACADEMY OF Family Physicians

Discussion: Diabetes

- Sparse literature quantifying the severity of health disparities in COFA migrants
- COFA population has almost higher prevalence of diabet (54.1%) than the control (27.7%)

NNUAL

FEBRUARY 16

AWAFI ACADEMY OF

- State prevalence of 10.3%
- COFA migrants have prevalence of uncontrolled diabetes
- Lower rate of prediabetes (COFA 12.4% vs control 20.5%)
 - Degree of symptom severity before presentation

Discussion: CKD and ESRD

- COFA 1.8x greater prevalence of CK(24.3%) than that of the control (13.6%)
- 10.2% of COFA migrants have SRD, 3.9x greate han the 2.6% in our control group
 - Disproportionate latepresentationin disease course

Discussion: Engagement with Medical Services

COFA patients

- Lower rates of patient portal activation
 - Even lower in the group who needs interpreters
- Higher % NO follow-up appointments scheduled
- Higher no show rate
 - Relatively lowerin group with stated need for interpreters

WAYFINDER PATIENT NAVIGATION PROGRAM

Wayfinders: Community Health Program

- Patient navigation with use of interpreter services
- One-year community health elective for firgear medical students
- Foster relationships with patients
- Connect patients to other services/departments

Wayfinders: Qualitative Review and Impact

- Significant Engagements in the first year of the program:
 - 15 patients at QEC
 - 18 patients at Kidney Clinic of Hawaii
- Interpreter Agency Wait Times
 - Agency A- 24 minutes
 - Agency B- 8 minutes
 - Conclusion: Clinic Policy Change

Wayfinder: Patient Stories

- Wheelchairbound patient w/ poor diabetes management
- Stated desire formore exercise
 - Started with small chores around the house
- Insulin refills
- Diabetes educator
- A1C 10.7 9/20/22 \rightarrow A1C8.3 7/17/23

Wayfinders: Patient Stories

- Marshallese young woman wilf SRDs/p DDRT in 2019
- Moving out of state
- No transition plan for medical care or insurance
- Interpreter use- educated patient on process for establishing Medicaid in a different state
- Enablecsafe transition for high-risk patient

Reflection

Strengths

- COFA-specific patient navigation
- Value of interpreter services
- Improved healthcare outcomes with high risk patients
- Valuable experience for medical students

Limitations

- Extraction of data from EMR
 - Ex. formulation for no show rate is not understood
- Potentially biased patient population
 - Lower SES
- Possible for missing diagnoses
- Short-term program

ANNUAL

HAWARI ACADEMY OF FAMILY PHYSICIANS

THANK YOU!

REFERENCES

- 1. Thomas E. Compacts of Free Association in FSM, RMI, and Palau: Implications for t20220 Renewal Negotiation and Cent Advocates Discrim
- 2. Stotzer R, Howard J. Final Summary Overview for Impacts of Social Proximity to Bias Crime among Compact of Free As 200 Fakiom (grants in Hawaii. Office of Justice Programs. Accessed August 18, 2023. https://www.ojp.gov/library/publications./finmalaryoverview-impactssocial-proximity-bias-crime-amongcompactfree
- 3. US Department of Justice. Citizens of the Federated States of Micronesia (FSM), the Republic of the Marshall Islands t(ReVR); public of Palau Have the Right to Work Without Facing Discrimination: What Employers Should Know.
- 4. Neal A. Palafox. Health Consequences of the Pacific U.S. Nuclear Weapons Testing Program in the Marshall Islands: **Protection**, Health Care Access, Policy, Regulation *Rev Environ Health* 2010;25(1):8-85. doi:10.1515/REVEH.2010.25.1.81
- 5. Riklon S, Alik W, Hixon A, Palafox NA. The "Compact Impact" in Hawai'i: Focus on Health Ganeaii Med. 2010;69(6 Suppl 3):12.
- 6. Peskin CH. THEY ARE HERE BECAUSE WE WERE THERE: COFA MIGRANTS IN THE UNITED Steating Immigr Law. 2023;37(2):345
- 7. Palafox N, Riklon S, Esah S, et al. The Micronesians. In: McDermott JF, Andrade NReceptes.and Cultures of Hawai The Evolution of Culture and Ethnicity. University of Hawai'i Press; 2011:293515. Accessed August 18, 2023. https://www.jstor.org/stable/j.ctt6wqhpx.21
- 8. Meisinger LK. COFA Migrants in Hawallep Bus Econ Dev Tour Res Econ Anal Drublished online February 2020.
- 9. Hawali IBIS- Other Pacific Islander Race/Ethnicity (DOH) Community Report. Accessed August 18, 2023. https://hhdw.org/report/community/indicators/HealthRisk/RacEthDOH/9.html
- 10.Hawai IBIS- Other Pacific Islander Race/Ethnicity (DOH) Community Report. Accessed August 18, 2023. https://hhdw.org/report/community/indicators/ChronicDisease/RacEthDOH/9.html
- 11.Young K, Bulosan H, Baksa J, Jeong Y, BuencousejbE, Birkeland AC. Oral Cancer Disparities in the Outeral Biated Paific Islands *The Laryngoscope* 2023;133(8):1899905. doi:10.1002/lary.30419
- 12. Tan C, Haumea S, Juarez DT, Grimm C. A descriptive study of Marshallese and Chuukese patients with diabetes Interview and Public Heal 2014;73(6):16871.
- 13. Durand AM, Cash HL, Reichhardt MLE, Taulung L, Tolenoa NM. The Protection Deagenosis, Treatment Status, and Disease Codifior People with Diabetes and Hypertension in the USAffiliated Pacific Island *Bawaii J Health Soc Welf* 2023;82(3):6671.
- 14.Hagiwara MKI, Miyamura J, Yamada S, Sentell T. Younger and Sicker: Comparing Micronesians to Other Ethnicities in Use Micronesians to Other Ethnicities in Us

FEBRUARY 16-18

FAMILY PHYSICIANS

REFERENCES

- 15.Paradies Y. A systematic review of empirical research onesed fted racism and healt *Int J Epidemio* 2006;35(4):88-901. doi:10.1093/ije/dyl056
- 16.Inada MK, Braun KL, Mwarike P, et al. Chuukese community experiences of racial discrimination and other barriers to healthouse tives from community members and provideose. Med Soc Med Publ Group. 2019;12(1):313.
- 17.Perico N, Remuzzi G. Prevention programs for chronic kidney disease-indome countries Intern Emerg Med 2016;11(3):38589. doi:10.1007/s117301614257
- 18.Worldwide access to treatment for ensitage kidney disease: a systematic reviewinicalKey. Accessed January 28, 2024/st//twww-clinicalkeycom.eres.library.manoa.hawaii.edu/#!/content/playContent/1 s2.0S0140673614616019?returnurl=null&referrer=null
- 19.Uchima O, Wu YY, Browne C, Braun KL. Disparities in Diabetes Prevalence Among Native Hawaiians/Other Pacific Islansians and Awai'Prev Chronic Dis2019;16:E2 22. doi:10.5888/pcd16.180187
- 20.National and State Diabetes Trends | CDC. Published July 29, 2022. Accessed August 25, 2023. https://www.cdc.gdor/atig/betest/is/reportcard/nationastate-diabetestrends.html
- 21.Waitzfelder B, Palaniappan L, Varga A, et al. Prevalence of cardiovascular disease among Asian, Pacific Islandæreapdpulattions in Hawai'i and Californ Ball C Public Health 2023;23(1):88-3885. doi:10.1186/s1288923157955
- 22. Williams DP, Hampton A. Barriers to Health Services Perceived by Marshallese Immightantisgr Minor Health 2005;7(4):31-326. doi:10.1007/s1090005-51298
- 23.McElfish PA, Balli ML, Hudson JS, et al. Identifying and Understanding Barriers and Facilitators to Medication Adhege Marshraltese Adults in Arkansa Scharm Technol JPT Off Publ Assoc Pharm. Tech 2018;34(5):204215. doi:10.1177/8755122518786262
- 24.Dadisman SK, Weltin A. Health Beliefs of Diabetic Pacific Islanders in Advantational Ethn Health Disparities 22;9(5):160-11606. doi:10.1007/s406-021-010990
- 25.Improving Health Outcomes in Diverse Populations: Competency in Qualsaral Research with Indigenous Pacific Islandeul Rtimps: Ethnicity & Health: Vol 7, No 4. Accessed August 18, 2023. https://www.tandfonlinecom.eres.library.manoa.hawaii.edu/doi/abs/10.1080/1355785022000060736
- 26.McElfish PA, Purvis RS, Esquivel MK, et al. Diabetes Disparities and Promising Interventions to Address Diabetesaiwaliativend Pacific Islander Populations *Totab Rep* 2019;19(5):19. doi:10.1007/s1189219-1138-1
- 27.Findley S, Matos Bridging the Gap: How Community Health Workers Promote the Health of Immigrants rd University Press, Incorporated; 2015. Accessed August 18, 2023. http://ebookcentral.proquest.com/lib/uhm/detail.action?docID=2044598
- 28.McElfish PA, Rowland B, Riklon S, et al. Development and Evaluation of a Blood Glucose Monitoring YouTube Video tese VPartisents Using a Community Section 2015. doi:10.1177/1527154419872834
- 29.Chang CD. Social Determinants of Health and Health Disparities Among Immigrants and their CollidreProbl Pediatr Adolesc Health Care019;49(1):2-330. doi:10.1016/j.cppeds.2018.11.009 30.Freeman HP, Rodriguez RL. The History and Principles of Patient Navigatimer 2011;117(15 0):3533542. doi:10.1002/cncr.26262
- 31.Wang ML, Gallivan L, Lemon SC, et al. Navigating to health: Evaluation of a community health center patient navigation reproduted Rep2015;2(C):664668. doi:10.1016/j.pmedr.2015.08.002 32.Yun K, Paul P, Subedi P, Kuikel L, Nguyen GT, Barg FKS electing Behavior and Health Care Navigation by Bhutanese Refugeenmunity Health 2016;41(3):526534. doi:10.1007/810900150126x

FEBRUARY 16-18

HAWAFI ACADEMY OF Family Physicians