

# Reporting by Racial Subgroups Hawai'i

Jill Miyamura, PhD  
Hawaii Health Information  
Corporation



HHIC



# Issues Regarding Race Hawai'i

- Disparities: Asians and Pacific Islanders
- Population estimates
  - US Census
  - 2 or more races?
- Hospital data
  - 1 race only





# Why Interested in Race?

## Hawai'i Health Facts and Disparities

- *Longest life expectancy* in the US
  - Chinese 83 yrs.
  - Hawaiians: ONLY 74 yrs.
- Mortality rates for major disease categories (CHD, Cancer) *lower* than US\*
  - Rates vary by ethnic group





# Asian and Pacific Islanders

## Hawaiian & Pacific Islanders

- Among highest rates is US for:
  - Obesity
  - Asthma
  - Cardiovascular disease
  - Diabetes
  - Breast cancer

## Filipinos

- Higher rates than other Asian or Caucasian for:
  - Diabetes
  - Perinatal mortality
  - Breast cancer mortality
  - Low birth weight infants
  - Renal disease
  - Childhood asthma

➔ Japanese and Chinese generally have better disease outcomes, and generally better than Whites.





# US Census Categories Hawai'i

Race
White
Black
American Indian and Alaska Native
Asian
Native Hawaiian and Other Pacific Islander
2 or more races

2010



HHIC



# US Census Categories Hawai'i

Race	Percent
White	23%
Black	2%
American Indian and Alaska Native	0.4%
Asian	31%
Native Hawaiian and Other Pacific Islander	25%
2 or more races	20%

2007









# Hospital Race Data Hawai'i

- Racial subgroups – aligned with State
  - Hawaii Health Survey (HHS)
- Choosing one race if 2 or more races
  - Which BEST represents your race?  
(hospitals and HHS)



## Percentage of Adult (Age $\geq$ 18) Hospital Inpatient Discharges by Race and Ethnicity in Hawaii

Race/Ethnicity	Adult Hospital Discharges, (% of all discharges)	Adult Population Estimate, State of Hawai'i (%)
White	28,057 (28)	259,581 (27)
Japanese	19,146 (19)	211,656 (22)
Native Hawaiian <sup>†</sup>	15,209 (15)	194,049 (20)
Filipino	14,404 (15)	146,670 (15)
Other Pacific Islander	3,803 (4)	27,186 (3)
Chinese	3,966 (4)	55,811 (6)
Other Asian	4,589 (5)	19,437 (2)
Hispanic <sup>‡</sup>	2,243 (2)	26,794 (3)
Black <sup>‡</sup>	923 (1)	11,524 (1)
Other (not listed above) <sup>‡</sup>	6,631 (7)	23,211 (2)
<b>TOTAL:</b>	<b>98,971 (100)</b>	<b>975,919 (100)</b>



## Article in press

- Moy, E., Mau, M., Raetzman, S., Barrett, M., Miyamura, J., Chaves, K., Andrews, R. ***Ethnic Differences in Potentially Preventable Hospitalizations among Asian American, Native Hawaiians, and Other Pacific Islanders: Implications for Reducing Health Care Disparities, Ethnicity and Disease*** (in press).



# Asthma Rates per 100,000 Population by Race

Race/Ethnicity	Asthma (PQI 15)
<b>White</b>	64
Asian and Pacific Islander (AANHPI)	91**

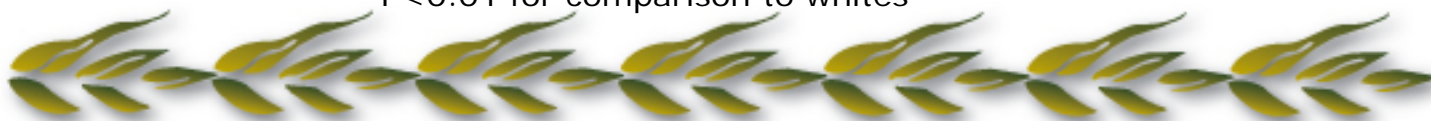
\*\*P<0.01 for comparison to whites



# Asthma Rates per 100,000 Population by Race

Race/Ethnicity	Asthma (PQI 15)
<b>White</b>	64
Asian and Pacific Islander (AANHPI)	91**
Asian American (AA)	65
Native Hawaiian and Pacific Islander (NHPI)	154**

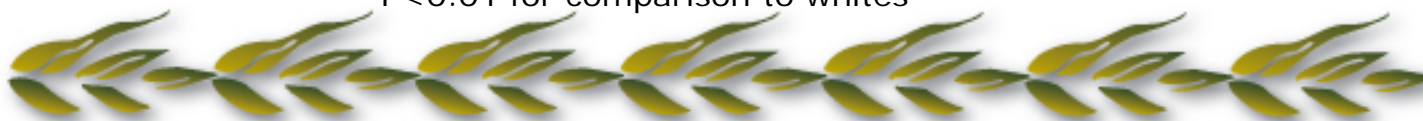
\*\*P<0.01 for comparison to whites



# Asthma Rates per 100,000 Population by Race

Race/Ethnicity	Asthma (PQI 15)
<b>White</b>	64
Asian and Pacific Islander (AANHPI)	91**
Asian American (AA)	65
<b>Japanese</b>	22**
<b>Filipino</b>	168**
<b>Chinese</b>	DSU
<b>Other Asian</b>	136*
Native Hawaiian and Pacific Islander (NHPI)	154**
<b>Native Hawaiian</b>	139**
<b>Other Pacific Islander</b>	315**

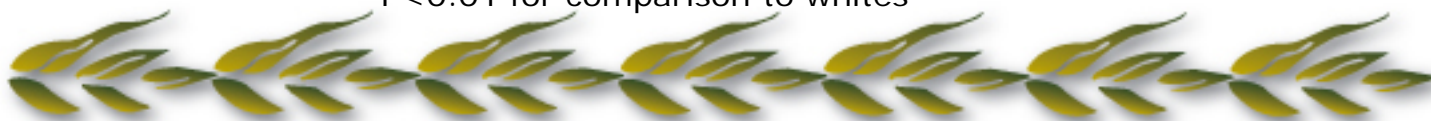
\*\*P<0.01 for comparison to whites



# Congestive Heart Failure (CHF) Rates per 100,000 Population by Race

Race/Ethnicity	CHF (PQI 8)
<b>White</b>	189
Asian and Pacific Islander (AANHPI)	289**
Asian American (AA)	226**
Native Hawaiian and Pacific Islander (NHPI)	461**

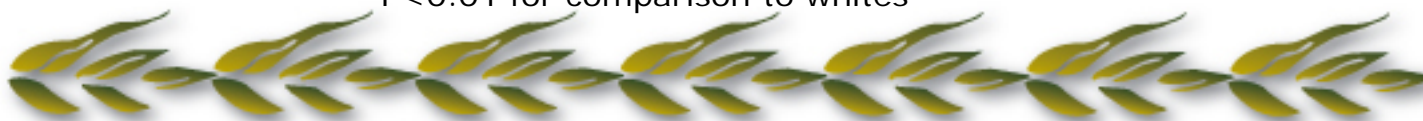
\*\*P<0.01 for comparison to whites



# Congestive Heart Failure (CHF) Rates per 100,000 Population by Race

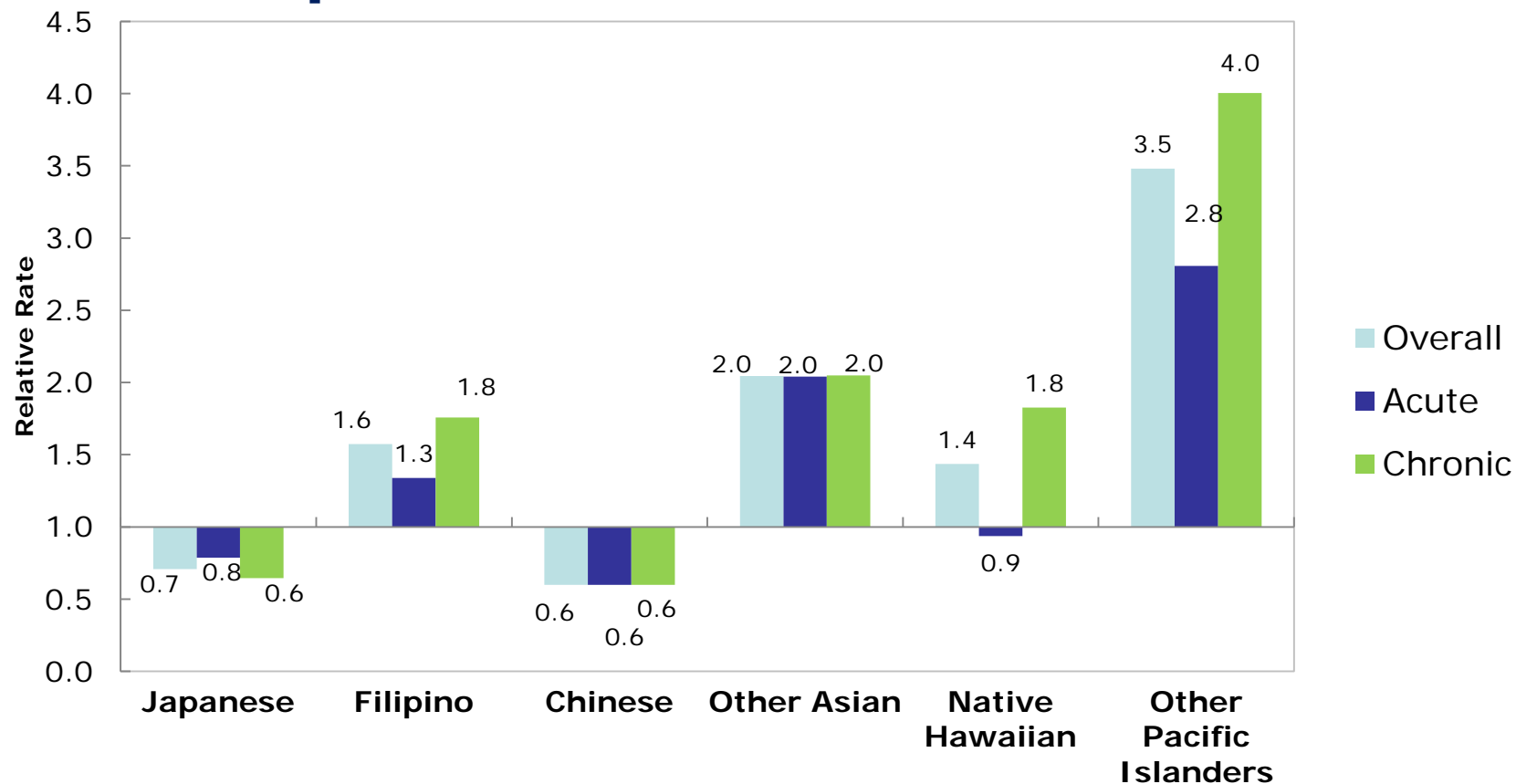
Race/Ethnicity	CHF (PQI 8)
<b>White</b>	189
Asian and Pacific Islander (AANHPI)	289**
Asian American (AA)	226**
<b>Japanese</b>	159**
<b>Filipino</b>	393**
<b>Chinese</b>	182
<b>Other Asian</b>	372**
Native Hawaiian and Pacific Islander (NHPI)	461**
<b>Native Hawaiian</b>	428**
<b>Other Pacific Islander</b>	816**

\*\*P<0.01 for comparison to whites





# Racial Comparison of Relative Rates of Overall, Acute, and Chronic PQI Composites Relative to Whites



2007





# Implications

- Meaningful to disaggregate race
  - Allows targeted interventions
- Conducting analyses of numerically small but distinct subpopulations is likely to grow in importance
- Hospital data is valued data asset
- Denominator data: local resources can support population estimates



# Pau



HHIC



# Key Race Subgroups Hawai'i

- Asians
  - Japanese
  - Chinese
  - Filipinos
  - Koreans
  - Vietnamese
  - Other Asian
- Native Hawaiians and Other PIs
  - Polynesian
    - Native Hawaiian
    - Samoan
    - Tongan
    - Other Polynesian
  - Micronesian
    - Guamanian
  - Other Pacific Islander

