

Pre Diabetes Rates among Pacific Islanders in California

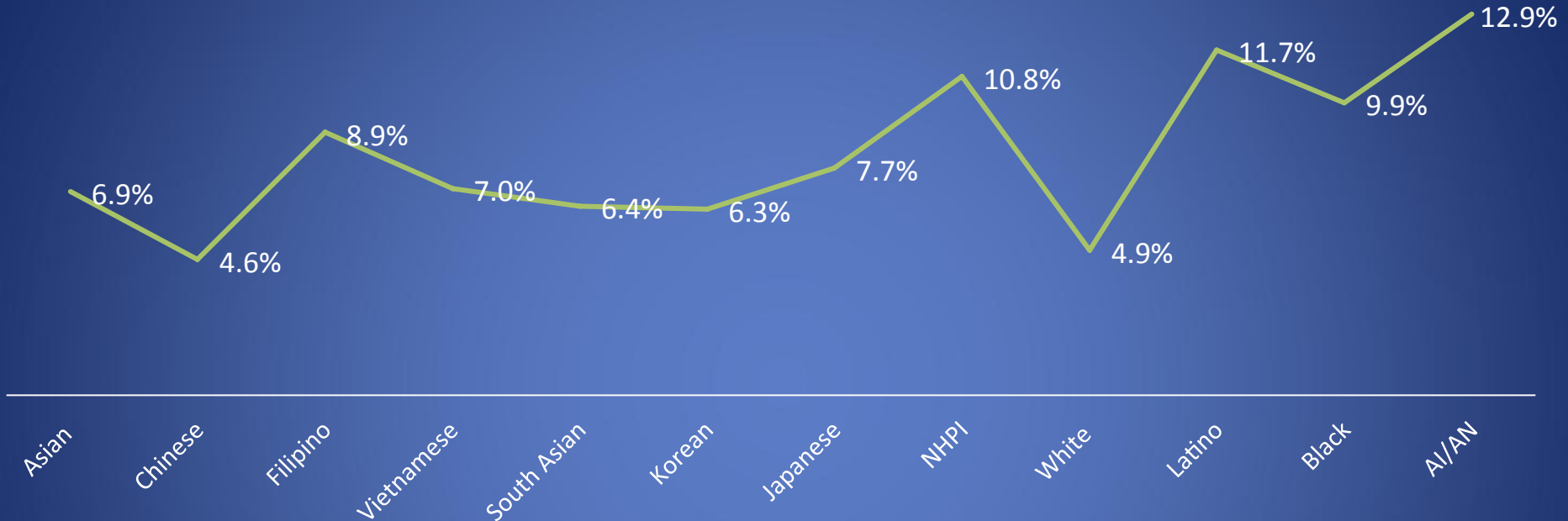
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2016 Asian American, Native Hawaiian and
Pacific Islander Diabetes Coalition Conference

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Diabetes Age-Sex adjusted Rate in CA

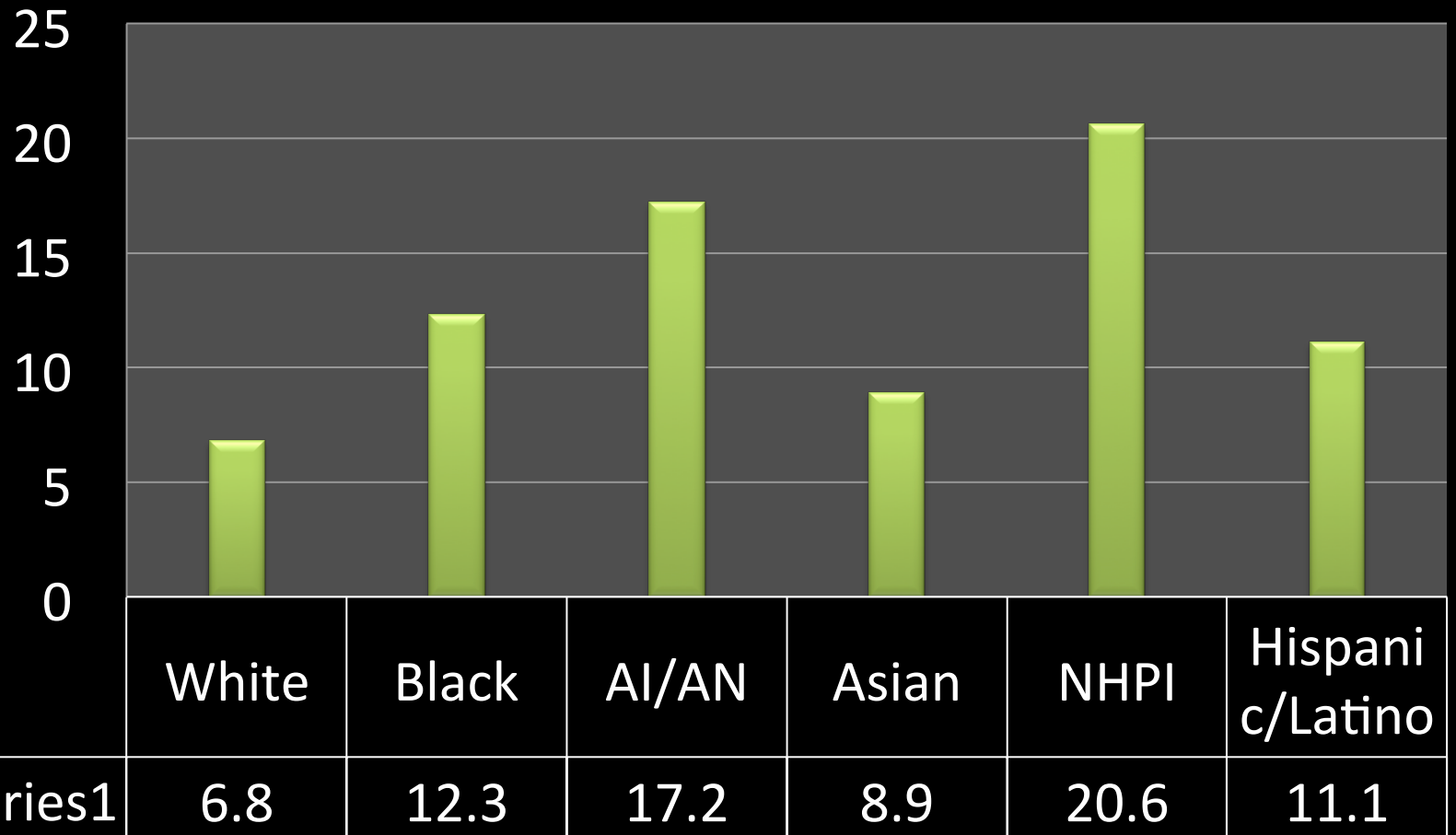
Diabetes Age-Sex adjusted Rate



Native Hawaiian and Pacific Islander Health Disparities Report, Asian and Pacific Islander Health Forum. NHPI_Report08a_2010.pdf

Source: CHIS 2003, 2005

Age-Adjusted percentages of Diabetes in Adults in the US, 2007



UCLA Policy Brief

- NHANES 2009-2012 data were used to build and test a statistical model predicting prediabetes, defined by hemoglobin A1c and fasting plasma glucose.
- Model was then applied to 2013-14 CHIS data to produce California-specific estimates of the prevalence of prediabetes.
- Asian/NHPI communities were disaggregated

Prediabetes in CA

Percent of Adults Estimated to Have Prediabetes by Race or Ethnicity and Age Group, California, 2013-14

Race and Ethnicity	Age Group				All Adults
	18-39	40-54	55-69	70+	
Latino	36%	51%	55%	51%	44%
Pacific Islander	43%	54%	76%	53%	55%
American Indian	38%	52%	65%	70%	51%
Asian	31%	45%	53%	58%	42%
African-American	38%	56%	61%	57%	50%
White	29%	49%	63%	61%	48%
Multiracial	37%	51%	58%	52%	45%
California	33%	49%	60%	59%	46%

Source: 2013-14 California Health Interview Survey

Note: Estimates of prediabetes are based on predictive models developed using 2009-2012 NHANES data and applied to CHIS 2013-14 data. Prediabetes estimates include adults

with undiagnosed diabetes (approximately 3.9 percent of adults nationally). Confidence intervals for estimates presented in this table are available here: <http://healthpolicy.ucla.edu/publications/search/pages/detail.aspx?PubID=1472>.

Diabetes and Cancer

- High levels of insulin stimulates normal cell growth
- Cancers may not be insulin resistant
- Cancers overexpress the insulin receptor
- Cancers express the fetal insulin receptor (IR-A)

Cancer

1. Goggins WB, Wong GK. **Poor survival for US Pacific Islander cancer patients: evidence from the Surveillance, Epidemiology, and End Results database: 1991 to 2004.** J Clin Oncol. 2007 Dec 20;25(36):5738-41.
2. BA Miller et al, Cancer incidence and mortality patterns among specific Asian and Pacific Islander populations in the U.S. Cancer Causes & Control April 2008, Volume 19, Issue 3, pp 227-256

Table 1. Number of Cases and Distribution of SEER-Modified AJCC Stage (third edition) or SEER Historic Stage (liver or stomach cancers)

Site	Race	No. of Cases	Stage (%)				Unstaged
			I*	II†	III‡	IV§	
Breast	Native Hawaiian	1,873	45.11	40.36	6.25	4.59	3.68
	Samoaan	187	19.25	48.66	16.58	9.09	6.42
	Other PI	279	37.63	37.63	12.19	7.17	5.38
	African American	34,293	33.34	42.58	10.4	7.12	6.55
	Native American	1,702	40.13	40.36	7.82	5.29	6.41
	White	310,024	48.87	36.14	5.85	3.98	5.16
Prostate	Native Hawaiian	923	25.89	13.65	11.27	14.30	34.89
	Samoaan	142	23.24	9.86	9.86	23.94	33.10
	Other PI	196	34.69	13.78	9.69	8.16	33.67
	African American	49,579	28.30	11.88	8.9	10.47	40.45
	Native American	1,077	27.30	12.35	13.56	11.98	34.82
	White	307,634	29.34	11.77	11.25	7.61	40.03
Lung	Native Hawaiian	1,486	19.45	3.50	33.31	38.09	5.65
	Samoaan	206	10.68	0.97	37.38	46.60	4.37
	Other PI	189	19.58	1.06	28.57	46.56	4.23
	African American	34,200	18.24	2.93	31.77	39.53	7.53
	Native American	1,345	19.18	3.72	34.05	36.51	6.54
	White	258,862	22.24	3.68	28.88	37.17	8.03
Colorectal	Native Hawaiian	973	26.52	24.46	25.90	19.32	3.80
	Samoaan	115	22.61	27.83	23.48	21.74	4.35
	Other PI	138	18.84	33.33	26.81	18.84	2.17
	African American	26,971	23.83	25.02	23.02	21.60	6.48
	Native American	1,429	23.93	27.99	26.52	18.75	2.80
	White	218,295	26.93	28.88	23.15	16.36	4.63
Stomach	Native Hawaiian	321	23.68	32.71		37.07	6.54
	Samoaan	100	18.00	34.00		37.00	11.00
	Other PI	58	13.79	32.76		39.66	13.79
	African American	5,839	24.15	27.86		34.39	13.60
	Native American	402	22.14	33.08		35.57	9.20
	White	27,863	24.50	28.99		33.65	12.86
Liver	Native Hawaiian	144	28.47	36.11		21.53	13.89
	African American	54	33.33	24.07		37.04	5.56
	Other PI	46	26.09	30.43		28.26	15.22
	Black	2,344	32.42	28.37		24.40	14.80
	Native American	181	44.75	20.99		19.34	14.92
	White	10,776	35.76	24.26		21.49	18.49

Abbreviations: SEER, Surveillance, Epidemiology, and End Results; AJCC, American Joint Committee on Cancer; PI, Pacific Islander; NOS, not otherwise specified.

*SEER modified AJCC stage (third edition) IA, IB, IC, or I, NOS.

†IIA, IIB, IIC, or II, NOS.

‡IIIA, IIIB, IIIC, or III, NOS.

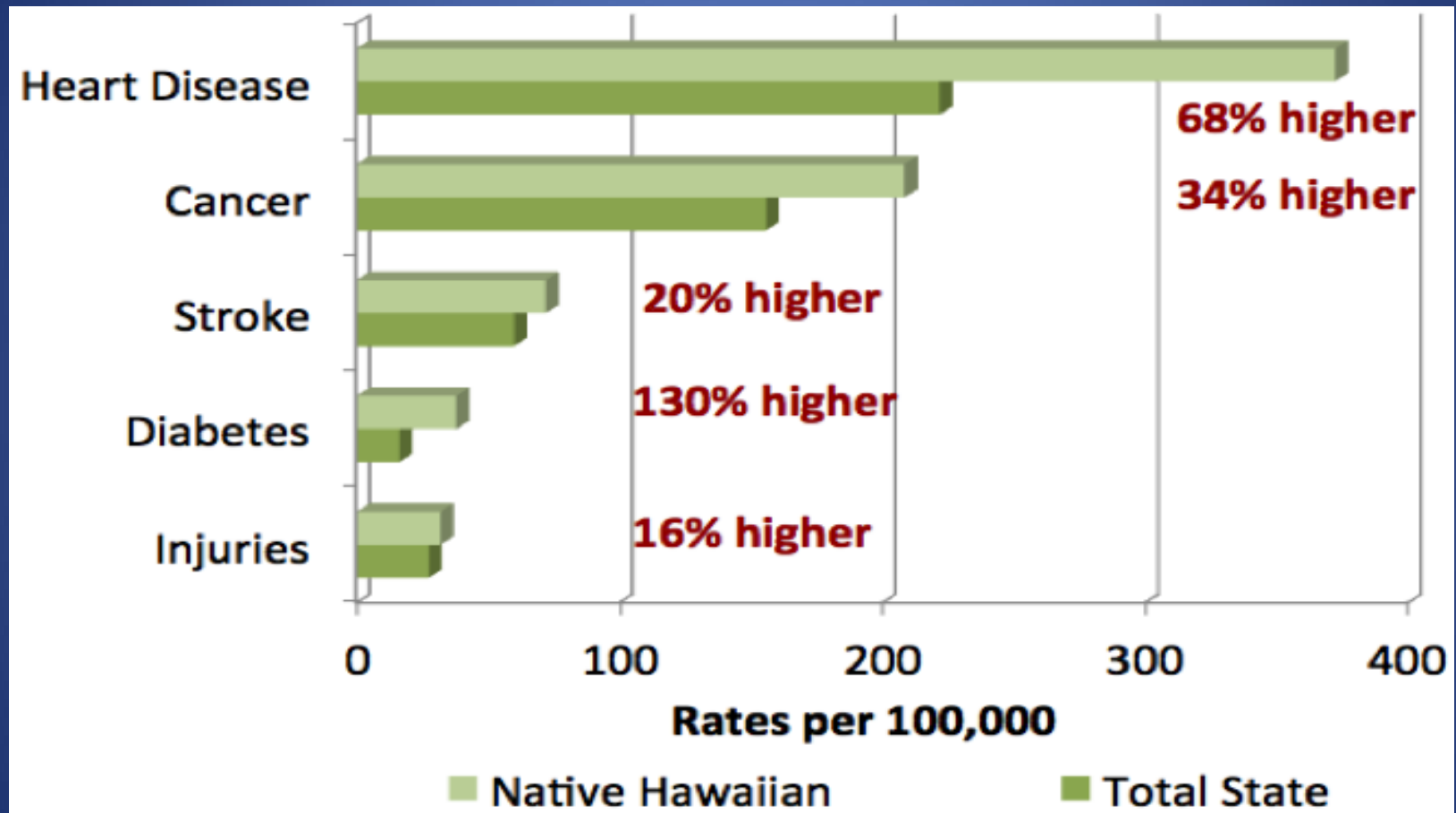
§IV, IVA, IVB, or IV, NOS.

||SEER historic stage has stage I, II, IV, or unstaged only.

Cancer Mortality Rates	Native Hawaiian			Samoan			White		
	Cancer	Rate	95% CI	Cancer	Rate	95% CI	Cancer	Rate	95% CI
	All	263.7	(243.7, 285.4)	All	293.9	(247.6, 348.6)	All	241.3	(240.5, 242.1)
1	Lung	87.7	(76.4, 100.7)	Lung	74.0	(53.6, 102.9)	Lung	72.2	(71.8, 72.7)
2	Colorectum	26.9	(20.8, 34.9)	Stomach	40.9	(24.1, 67.6)	Prostate	27.7	(27.4, 28.0)
3	Prostate	21.9	(15.7, 30.1)	Prostate	36.2	(18.9, 64.4)	Colorectum	24.6	(24.3, 24.8)
4	Stomach	14.1	(9.9, 20.2)	Liver	32.9	(19.3, 56.1)	Pancreas	12.6	(12.4, 12.8)
5	Liver	11.8	(7.9, 17.7)	Colorectum	31.6	(17.2, 56.0)	Non-Hodgln	10.6	(10.5, 10.8)

Cancer Mortality Rates	Native Hawaiian			Samoan			White		
	Cancer	Rate	95% CI	Cancer	Rate	95% CI	Cancer	Rate	95% CI
	All	198.9	(184.4, 214.4)	All	209.3	(176.5, 248.2)	All	171.7	(171.1, 172.2)
1	Lung	47.6	(40.6, 55.6)	Lung	42	(27.1, 63.7)	Lung	44.5	(44.2, 44.8)
2	Breast	33.5	(27.9, 40.1)	Breast	36.2	(24.0, 54.9)	Breast	27.8	(27.5, 28.0)
3	Pancreas	16.8	(12.7, 21.8)	NR	-	-	Colorectum	17.3	(17.1, 17.5)
4	Colorectum	13.1	(9.5, 17.7)	NR	-	-	Ovary	9.8	(9.6, 9.9)
5	Stomach	10.3	(9.5, 17.7)	NR	-	-	Pancreas	9.5	(9.4, 9.6)

Mortality Rate



Johnson, D. B., Oyama, N., LeMarchand, L., & Wilkens, L. (2004). Native Hawaiians mortality, morbidity, and lifestyle: comparing data from 1982, 1990, and 2000. *Pacific Health Dialogue*, 11 (2), 120-130.

Missing links

Thank you