Native American Cancer Research (NACR) Corporation: "Native American Cancer Disparities and Health

Inequities" Fact Sheet

for Public Health Professionals and Interested **Community Members**





- Most health disparities can be addressed / overcome
- Some, like biological sex, cannot
- Native peoples can become healthy again (like our ancestors)

are:

inequities?"

Health conditions that

Unnecessary

and therefore unjust.

Ref. The World Health

Organizations

Avoidable

Now you know, Now you can

What are "health

Lance Nakose Allrunner **Comanche Nation** 11-30-68 to 03-05-2010

What is a "health disparity" population?

QUALITY OF LIFE

- A population is significantly different from others in regards to the overall rate of disease:
 - Incidence
 - Prevalence
 - Morbidity
 - Mortality
 - or survival
- as compared to the health status of the general population.

Ref. The Minority Health and Health Disparities Research and Education Act of 2000



Table 1: Selected US All **AIAN Demographics** Races Median Age 29 35 \$28,900 \$37,100 Median Income (M) Median Income (F) \$22,800 \$27,200 Living below Federal Poverty 25.70% 12.40% High School Grad (or GED) 71% 80%

Census 2000 Special Reports, We the People: American Indians and Alaska Natives in the United States, Census Bureau, Washington, DC, 2006

What are examples of "determinants" of health that

- Geographic region
- Environment
- Occupation
- Biological Gender, Race, Age, Sexual orientation

affect health inequities?

- Disability
- Socio-economic situation
- Health literacy
- Access to health care
- Access to affordable healthy food

ABBREVIATIONS

AIAN American Indian / Alaska Native

Feel sad most / all of the time

BRFSS Behavior Risk Factor Surveillance Survey

F Female

IHS Indian Health Service

M Male

NHW Non-Hispanic White

3.20%

*4.6%

2.20%

Selected Health Disparity Results from the National Health Statistics Reports (US 2004-2008)									
	AIAN F/M	NHW F/M	AIAN F	NHW F	AIAN M	NHW M			
Heart Disease	14.70%	12.20%	15.00%	11.30%	15.50%	13.50%			
High Blood Pressure	34.50%	25.70%	30.20%	24.70%	38.70%	26.70%			
Asthma	14.20%	11.60%	18.20%	13.00%	10.10%	10.10%			
Diabetes	17.50%	6.60%	16.20%	6.20%	18.20%	7.20%			
Ulcer	11.40%	7.60%	10.80%	7.70%	12.80%	7.60%			
Absence of all natural teeth	13.90%	8.00%	13.10%	8.00%	14.80%	8.00%			
Hearing Loss / Deafness	5.50%	3.20%	2.70%	2.30%	9.30%	4.20%			

Barnes, P.M, P.F. Adams and Eve Powell-Griner. 2010. Health Characteristics of the American Indian or Alaska Native Adult Population: United States, 2004-2008. National Health Statistics Reports. Number 20, March 9. 2010 http://www.cdc/gov/ncha/data/ad/ad356.pdf

2.70%

4.90%

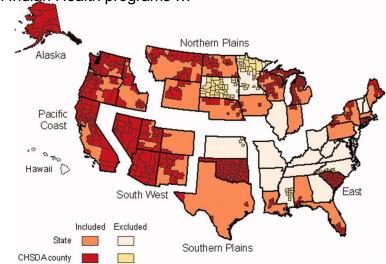
IHS BRFSS 2000-2006										
	М	F	M	F	М	F	Both Genders			
	Current Smoker ¹		Obesity ²		Heavy D	Drinker ³	Diabetes ⁴			
US NHW	23.50%	22.10%	22.40%	19.30%	6.70%	5.30%	6.00%			
All AIAN CHSDA	34.40%	27.20%	32.20%	28.80%	8.80%	3.50%	12.40%			
Alaska	43.90%	36.70%	25.00%	33.60%	4.90%	5.00%	5.70%			
Northern Plains	43.10%	37.70%	32.30%	30.60%	6.30%	3.60%	13.00%			
East	40.90%	30.30%	24.20%	25.40%	9.80%	3.60%	8.6%5			
Southern Plains	33.70%	32.70%	35.60%	28.20%	10.20%	5.00%	12.60%			
Pacific Coast	25.70%	18.40%	34.10%	31.60%	8.50%	2.00%	13.40%			
Southwest	25.40%	17.10%	29.20%	29.70%	7.50%	3.30%	33-55%4			

Steele CB, Cardinez CJ, Richardson LC, Tom-Orme L, Shaw K. Surveillance for Health Behaviors of American Indians and Alaska Natives—Findings from the Behavioral Risk Factor Surveillance System, 2000-2006, CANCER 2008,

- 1. 100 cigarettes in your lifetime
- 2. Body Mass Index (BMI) equal or greater than 30 kg/m2
- 3. 2 drinks a day for males and 1 drink a day for females
- 4. CDC, IHS 2009
- 5. No data for "East" in Steele et. al; use data from Denny Clark H, Holtzman Deborah, Cobb, Nathaniel. Surveillance for Health Behaviors of American Indians and Alaska Natives: Findings from the Behavioral Risk Factor Surveillance System, 1997-2000. Morbidity and Mortality Weekly Report, August 1, 2003.

How does BRFSS over-estimates health coverage for AIANs?

- **US NHW 88.3%**
- **# AIANs 75.6%**
- Most AlANs consider IHS or tribal programs to be health insurance. But, according to the US Census, IHS and tribal health programs are NOT health insurance.
- When NACR staff conducted exit interviews with AIAN community members who were taking part in BRFSS at a national AIAN conference, more than 1/2 who responded "yes" to having health insurance, actually only had IHS / Tribal / Urban Indian Health programs ...
- Thus, BRFSS probably overestimates by 1/3 or 33% according to NACR's data.
- Access to services varies among AlANs. For example, California has highest number of federally recognized Als, yet <5% access and use IHS / Tribal / Urban Indian health services (Seals BF, Burhansstipanov L, Satter DE, Chia JY, Gatchell M. California American Indian and Alaska Natives Tribal Groups, Care Access and Utilization of Care: Policy Implications. Journal of Cancer Education Spring 2006: 21; 1 (Suppl) pp S15-S21.PMID: 17020497)



AIAN Cancer Screening, IHS BRFSS

F	_			IHS BRFSS 2000-2006									
*	F	M	M	F									
Mammogram ¹	Pap test ²	Prostate-Specific Col		orectal ⁴									
		Antigen (PSA) ³											
76.00%	84.00%	58.00%	55.80%	52.40%									
69.40%	78.00%	48.40%	45.00%	43.60%									
75.90%	87.50%	28.70%	42.90%	55.10%									
67.90%	80.40%	44.90%	4.90% 34.90%										
71.20%	78.30%	49.70%	54.20%	44.50%									
66.40%	74.50%	54.90%	43.40%	45.30%									
69.90%	77.70%	49.00%	37.60%	36.20%									
66.30%	79.60%	41.50%	35.80%	39.70%									
	76.00% 69.40% 75.90% 67.90% 71.20% 66.40% 69.90%	76.00% 84.00% 69.40% 78.00% 75.90% 87.50% 67.90% 80.40% 71.20% 78.30% 66.40% 74.50% 69.90% 77.70% 66.30% 79.60%	Mammogram ¹ Pap test ² Prostate-Specific Antigen (PSA) ³ 76.00% 84.00% 58.00% 69.40% 78.00% 48.40% 75.90% 87.50% 28.70% 67.90% 80.40% 44.90% 71.20% 78.30% 49.70% 66.40% 74.50% 54.90% 69.90% 77.70% 49.00% 66.30% 79.60% 41.50%	Mammogram¹ Pap test² Prostate-Specific Antigen (PSA)³ Color Antigen (PSA)³ 76.00% 84.00% 58.00% 55.80% 69.40% 78.00% 48.40% 45.00% 75.90% 87.50% 28.70% 42.90% 67.90% 80.40% 44.90% 34.90% 71.20% 78.30% 49.70% 54.20% 66.40% 74.50% 54.90% 43.40% 69.90% 77.70% 49.00% 37.60% 66.30% 79.60% 41.50% 35.80%									

Steele CB, Cardinez CJ, Richardson LC, Tom-Orme L, Shaw K. Surveillance for Health Behaviors of American Indians and Alaska Natives (AlAN)—Findings from the Behavioral Risk Factor Surveillance System, 2000-2006, CANCER 2008: 113;S5: 1131-1141. PMID:

- 1. within 2 years, females 40 and older
- 2. Within 3 years (females without hysterectomy)
- 3. Within 1 year, Males, 50-75 years
- 4. Fecal Occult Blood Test (FOBT) within 1 year or endoscopy within 5 years for 50 and older

Inquiring Minds want to know:

Why do AIAN data differ so greatly from region to region (as compared to much less variations among NHW regional data)?

AIAN and NHW Regional Cancer Incidence Differences, age-adjusted rates, 1999-2004												
	AIAN	NHW	AIAN	NHW	AIAN	NHW	AIAN	MHM	AIAN	NHW	AIAN	NHW
	F	F	F	F	M	M	F	F	M	M	F	F
	Bre	east	Lung		& Bronchus		Colorectal				Cervix	
US NHW		134.8		59.2		87.6		43.8		60.4		7.5
All AIAN CHSDA	84.7		48.0		68.0		41.6		51.5		9.4	
Alaska	139.5	135.6	78.9	59.9	116.5	84.8	106.2	40.6	98.5	61.4	9.2	6.0
Northern Plains	112.2	130.5	97.4	52.0	115.5	86.7	60.4	45.3	79.8	62.0	11.3	7.5
East	69.1	132.8	45.2	45.2	45.4	94.5	34.6	46.9	35.5	65.9	8.2	7.7
Southern Plains	115.2	130.0	68.6	62.9	108.7	109.1	54.4	43.4	68.9	63.5	14.1	9.2
Pacific Coast	74.5	142.5	47.0	60.9	56.5	82.4	34.8	42.0	35.5	56.4	6.9	7.0
Southwest	50.4	127.2	10.3	56.9	22.1	78.1	17.6	40.3	26.7	56.1	7.9	7.5

Great Diversity among Tribal Nations

- More than 560 federally recognized tribal Nations
 - 1 In addition, several hundred more tribes are state recognized, but not federally recognized
 - State recognized tribes are not eligible for IHS, most federally supported education programs, etc.
- 217 Native languages spoken today

Which states have more than 100,000 AIAN residents?

Washington

Mo. Carolina

Michigan

Alaska

- **California** (628,000)
- **Oklahoma** (392,000)
- Arizona
- New Mexico
- Mew York

Florida Combined, these states have 62% of the

total AIAN population



Which American Indian tribes have 50,000 or more enrolled members?

- Cherokee
- Mavajo
- Choctaw
- Blackfeet

- Chippewa
- Muscogee
- Apache
- **umbee**

Interventions Need to:

- Go beyond identifying and listing barriers
- Address all cancers rather than limit program only to screenable cancers (breast, cervix, colon, lung, prostate)
- Go beyond collecting survey data
 - "We have been surveyed to death!"
- Include tribal elder / leaders' guidance on priority topics
- Integrate traditional, healthy Al culture and behaviors
- Result in increased / improved services and programs that survive beyond the grant

Fact Sheet & Info Partially Supported by:

Mayo Clinic's Spirit of Eagles Community Network Programs [PI: Kaur: NCI U01 CA 114609]



National Center for Minority Health & Health Disparities [PI: Burhansstipanov, R24MD002811]

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