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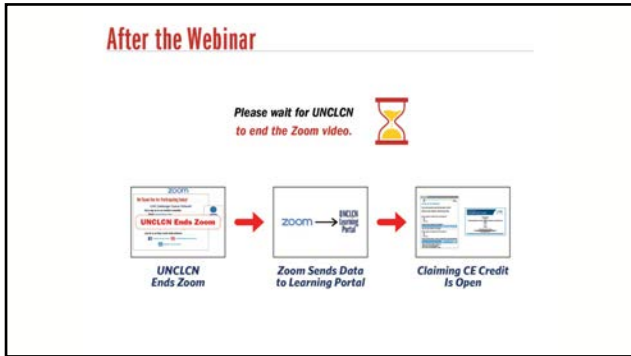
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**Our Presenter**



**Our Presenter**

Melissa A. Jim, MPH (Diné) graduated from the MPH program at the University of New Mexico School of Medicine in 2004. She has been an Epidemiologist with the Cancer Surveillance Branch in the Division of Cancer Prevention and Control at the Centers for Disease Control and Prevention in Albuquerque, NM since 2005. She conducts data linkages between all central cancer registries in the United States with the Indian Health Service (IHS) patient registration database, with results so significant that the linkage has become an annual central cancer registry requirement. She is co-PI on a project involving the linkage of the National Death Index which is maintained by the National Center for Health Statistics with the IHS patient registration database to improve the quality of race data for death records. She also provides technical assistance and analytic support to IHS and tribal organizations. Prior to working for CDC she worked at the New Mexico Tumor Registry for 6 years.

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**Our Presenter**

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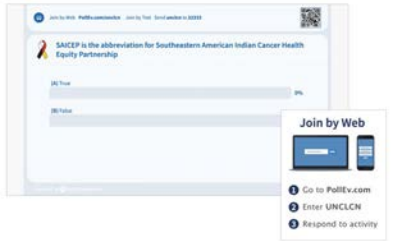
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**Sample Poll Everywhere Question**



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**ACCME Disclosure**

This activity has been planned and implemented under the sole supervision of the Course Director, Stephanie Wheeler, PhD, in association with the UNC Office of Continuing Professional Development (CPD). The course director received research support from AstraZeneca (ended June 2023) and Pfizer Medical Foundation (ended December 2023). These financial relationships have been mitigated. CPD staff have no relevant financial relationships with ineligible companies as defined by the ACCME.

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SAICEP is the abbreviation for Southeastern American Indian Cancer Health Equity Partnership

True  0%

False  0%

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Cancer Prevention Works

Improving American Indian/Alaska Native (AI/AN) cancer surveillance data in the United States

Melissa A. Jim, MPH (Diné) Epidemiologist

SAICEP Webinar  
May 1, 2024

 Centers for Disease Control and Prevention  
National Center for Chronic Disease Prevention and Health Promotion  
Division of Cancer Prevention and Control

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**Overview**

- Background
- United States Cancer Statistics
- Methods to improve the estimation of cancer burden among AI/AN
  - 1) IHS Linkage
  - 2) Restriction to IHS Purchased/Referred Care Delivery Area (PRCDA) counties
  - 3) Restriction to non-Hispanic populations
- USCS Data Visualization Tool

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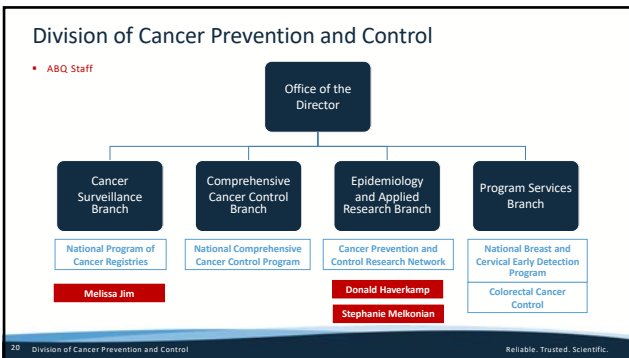
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**Background**

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### Background

- Race misclassification of AI/AN occurs in cancer surveillance & vital statistics databases
- More AI/AN are misclassified as another race on death certificate records than other race groups
- Results in underestimates of cancer incidence & death rates among AI/AN
- This project compared self-report Census race to race on the death certificate
  - Only 55% of those who self-reported as AI/AN were coded as AI/AN on the death certificate
  - 41% of those who self-reported as AI/AN were coded as White on the death certificate

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### AI/AN cancer incidence, 1992-1999

- 12 SEER geographic areas
  - AK, Atlanta, CT, Detroit, HI, IA, Los Angeles, NM, San Francisco-Oakland, San Jose-Monterrey, Seattle-Puget Sound, and UT
- 818,685 AI/AN cases
  - 32% lived in NM
  - 21% lived in AK
  - 12% lived in Seattle-Puget Sound
  - 11% lived in Los Angeles

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### CDC's role in cancer surveillance

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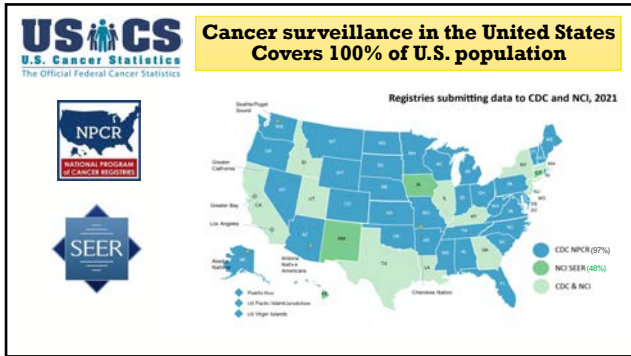
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- Method 1: Link with IHS administrative records**
- Link administrative records from IHS with cancer records from:
    - CDC's National Program of Cancer Registries (NPCR)
    - NCI's Surveillance, Epidemiology, and End Results (SEER)
  - Identify AI/AN cases misclassified as non-AI/AN
  - Results captured in IHS Link (NAACCR data item 192) in NPCR & SEER annual data submissions
  - Race recode (Race1, Race2, and IHS Link)
    - Various USCS databases
    - USCS AI/AN Incidence Analytic Database (AIAD)
    - Various SEER databases

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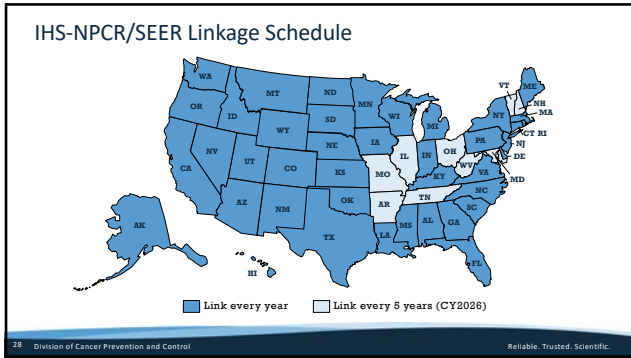
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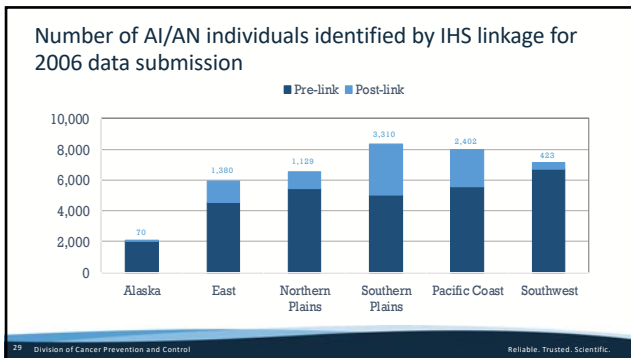
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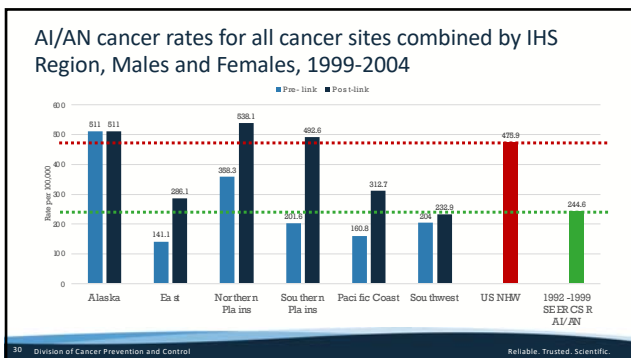
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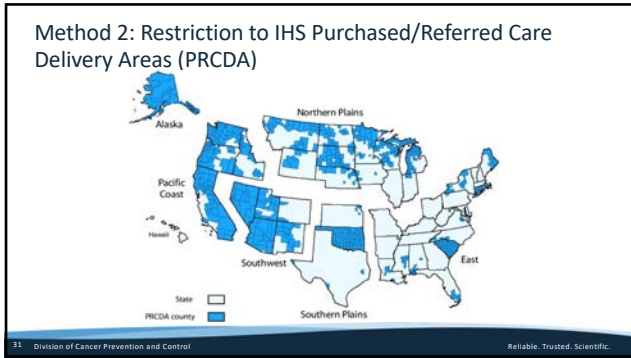
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### Sensitivity & classification ratios for decedents that linked to IHS: US, NPCR/SEER, 1990-2009

Group	Sensitivity		Classification Ratio	
	CHSDA	Non-CHSDA	CHSDA	Non-CHSDA
Male and Female	77.6	39.0	1.29	2.56
Male	77.3	39.8	1.29	2.51
Female	77.9	38.4	1.28	2.60
Northern Plains	88.2	71.4	1.13	1.40
Alaska	99.4	NA	1.01	NA
Southern Plains	56.2	13.9	1.78	7.22
Southwest	59.1	63.2	1.12	1.58
Pacific Coast	86.4	57.1	1.15	1.75
East	12.8	15.2	1.90	6.60
Urban	72.9	41.6	1.37	2.40
Rural	80.8	52.1	1.24	1.92

Jim MA, Arias E, Seneca DS, Hoopes MJ, Jim CC, Johnson NJ, Wiggins CL. Racial Misclassification of American Indians and Alaska Natives by Indian Health Service Contract Health Service Delivery Area. *Am J Public Health*. 2014; 104:5295-5302.

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### Sensitivity & classification ratios for decedents that linked to IHS: US, IHS-NVSS, 1990-2009

Group	Sensitivity		Classification Ratio	
	CHSDA	Non-CHSDA	CHSDA	Non-CHSDA
Male and Female	83.6	54.8	1.20	1.82
Male	84.3	55.9	1.19	1.79
Female	82.7	53.6	1.21	1.87
Northern Plains	91.9	74.2	1.09	1.35
Alaska	93.5	NA	1.07	NA
Southern Plains	65.3	38.4	1.53	2.61
Southwest	94.3	72.3	1.06	1.38
Pacific Coast	75.2	52.9	1.33	1.89
East	83.2	38.8	1.20	2.57
Urban	77.8	55.4	1.29	1.81
Rural	87.1	53.1	1.15	1.88

Jim MA, Arias E, Seneca DS, Hoopes MJ, Jim CC, Johnson NJ, Wiggins CL. Racial Misclassification of American Indians and Alaska Natives by Indian Health Service Contract Health Service Delivery Area. *Am J Public Health*. 2014; 104:5295-5302.

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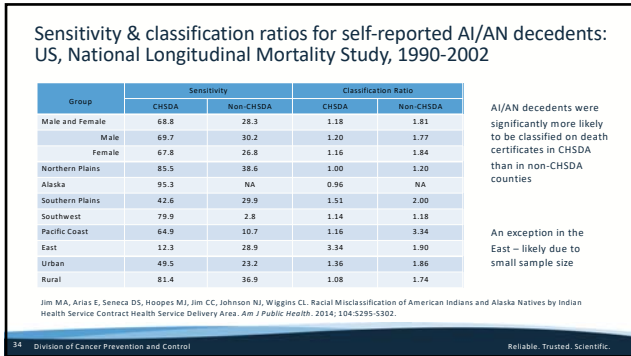
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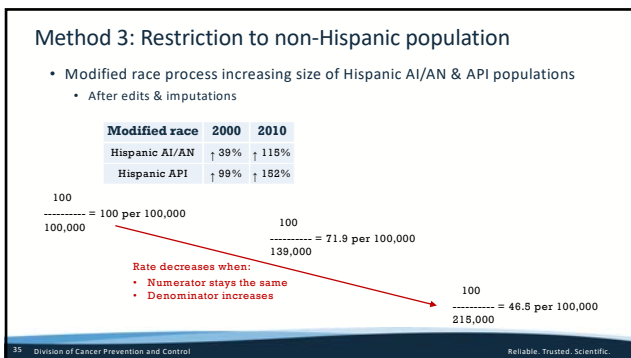
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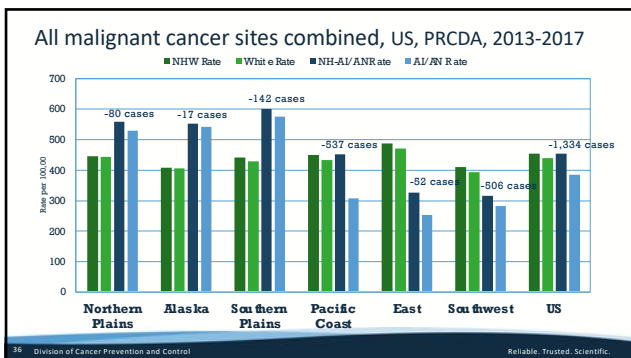
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### USCS AI/AN Incidence Analytic Database (USCS AIAD)

<https://www.cdc.gov/cancer/uscs/about/tools/ai-an-incidence-analytic-db.htm>

- Aggregated at IHS Region
  - Northern Plains
  - Alaska
  - Southern Plains
  - Pacific Coast
  - East
  - Southwest
  - US
- Race recode that incorporates IHSLink
- PRCDA county flag
- Includes data for 1999-2021 dx years
- AI/AN Data Briefs
  - <https://www.cdc.gov/cancer/uscs/about/data-briefs/index.htm>



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CDC Centers for Disease Control and Prevention  
 CDC 247 Saving Lives, Protecting People™

**USCS**  
 U.S. Cancer Statistics  
 The Official Report of Cancer Incidence

### United States Cancer Statistics: Data Visualizations

The official federal statistics on cancer incidence and deaths, produced by the Centers for Disease Control and Prevention (CDC) and the National Cancer Institute (NCI).



Methods to improve AI/AN cancer data	USCS Data Viz*	USCS Data Viz - AI/AN Incidence Analytic Database module**
1) IHS Linkage	Yes	Yes
2) Restrict to PRCDA counties	No	Yes
3) Restrict to non-Hispanic AI/AN	No	Yes

\* <https://www.cdc.gov/cancer/uscs/iaa/iaa-glance/> - State- and county-specific data for non-Hispanic American Indian and Alaska Native persons are not presented for states that opted not to present these data: Illinois, Kansas, New Jersey, New York, and North Dakota.  
 \*\* <https://www.cdc.gov/cancer/uscs/iaa/iaa/> - data for all states included.

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 All American Indian/Alaska Native cancer data is accurate.

True  0%

False  0%

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 **Cancer incidence means the number of new cases for a given cancer.**

True

False

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 **AI/AN rates of cancer are the same across the United States.**

True

False

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USCS Data Visualization Tool –  
AI/AN restricted to PRCDA only



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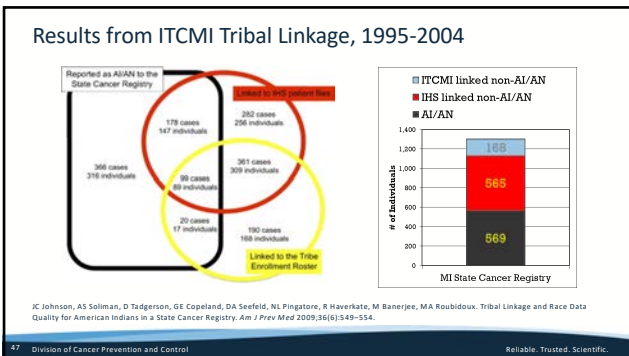
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### Data Dissemination Strategies

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### Cancer among the Navajo

<https://ncc.navajo-azn.gov/Portals/0/Reports/NavajoCancerReport%2013Nov2023.pdf>

- Report produced in response to professional & community concerns that cancer may be increasing among the Navajo
- 3rd report recently completed
  - 2014-2018
- Data sources:
  - Arizona Cancer Registry
  - New Mexico Tumor Registry
  - USCS AI/AN Incidence Analytic DB
  - US Mortality Data



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### Cancer among the Haudenosaunee (People of the Longhouse)

- Utilize national datasets (USCS AIAD and USCS AMD) to provide an accurate picture of health disparities for all enrolled and non-enrolled members of the Haudenosaunee
- Provide data for modifying interventions and health systems
- Analysis restricted to counties that comprise the following territories:
  - Allegany
  - Cattaraugus
  - Oil Springs
  - Oneida Indian Nation
  - Oranodaga
  - St. Regis Mohawk
  - Tonawanda
  - Tuscarora
- Previous publication:
  - Haring RC, Jim MA, Erwin D, Kaur J, Henry WAE, Haring ML, Seneca DS. Mortality disparities: A Comparison with the Haudenosaunee in New York State. *Cancer Health Disparities*. 2018 ;2:e1-e20
- Upcoming Publication
  - Breast and Prostate Cancer Incidence
- Collaborator- Roswell Park Comprehensive Cancer Center: Center for Indigenous Health Research



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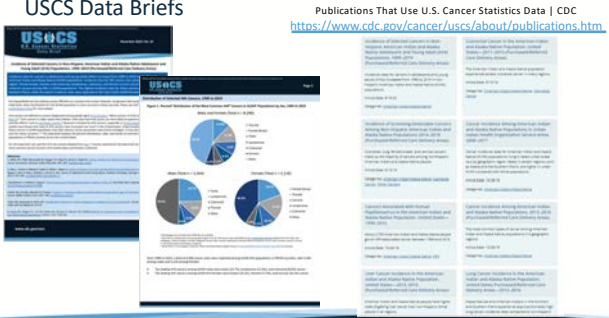
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### USCS Data Briefs

Publications That Use U.S. Cancer Statistics Data | CDC  
<https://www.cdc.gov/cancer/uscs/about/publications.htm>



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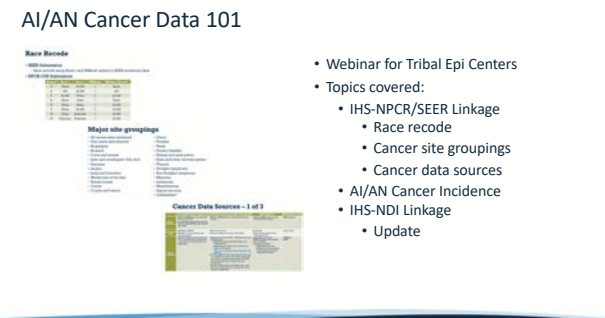
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### AI/AN Cancer Data 101



- Webinar for Tribal Epi Centers
- Topics covered:
  - IHS-NPCR/SEER Linkage
    - Race recode
    - Cancer site groupings
    - Cancer data sources
  - AI/AN Cancer Incidence
  - IHS-NDI Linkage
    - Update

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### Manuscripts (planned and in-process)

<https://www.cdc.gov/cancer/uscs/about/publications.htm>

- Kidney cancer (accepted by not published yet)
- USCS AI/AN Mortality Database
  - Leading causes of death, 2020
    - IHS Region
    - IHS Area
    - Urban
  - COVID-19, 2020
    - IHS Region
    - IHS Area
    - Urban

[https://ncccd.cdc.gov/DCDC\\_SCS/index.aspx#/results?titleMatches=American%20Indian&titleMatchType=exact&sort=publicationYear&dir=true](https://ncccd.cdc.gov/DCDC_SCS/index.aspx#/results?titleMatches=American%20Indian&titleMatchType=exact&sort=publicationYear&dir=true)

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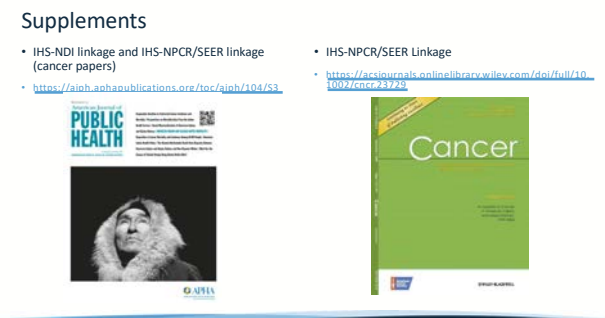
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### Supplements

- IHS-NDI linkage and IHS-NPCR/SEER linkage (cancer papers)
  - <https://aioh.anhaipublications.org/toc/aioh/104/S3>
- IHS-NPCR/SEER Linkage
  - <https://onlinelibrary.wiley.com/doi/full/10.1002/cncr.33749>



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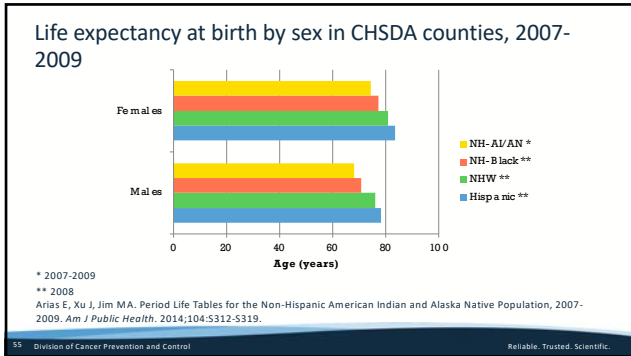
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### Top 10 cancer causes of cancer death for AI/AN Males by IHS Region: CHSDA, 1999-2009

Rank	Northwest Plains	Alaska	Southwest Plains	Southwest	Pacific Coast	East	Mid
1	All cancers (1.51)*	All cancers (1.44*)	All cancers (1.31*)	All cancers (0.79*)	All cancers (1.05)	All cancers (0.83*)	All cancers (1.11*)
2	Lung (1) (1.71*)	Lung (1) (1.81*)	Lung (1) (1.21*)	Lung (1) (0.34*)	Lung (1) (0.88)	Lung (1) (0.82*)	Lung (1) (1.01)
3	Colorectal (3) (1.84*)	Colorectal (2) (2.12*)	Colorectal (2) (1.40*)	Prostate (2) (0.92*)	Colorectal (3) (1.41*)	Colorectal (3) (0.87)	Colorectal (3) (1.20*)
4	Prostate (2) (1.55*)	Stomach (11) (4.40*)	Prostate (1) (1.30*)	Colorectal (3) (0.69)	Prostate (2) (0.98)	Prostate (2) (0.98)	Prostate (2) (1.09)
5	Liver (10) (2.75*)	Pancreas (4) (1.72*)	Kidney (8) (2.11*)	Stomach (14) (4.31*)	Liver (9) (4.31*)	Liver (8) (3.38)	Liver (8) (2.12*)
6	Kidney (9) (2.08*)	Prostate (5) (2.11*)	Liver (9) (2.18*)	Liver (8) (2.15*)	Pancreas (4) (1.02)	Stomach (11) (1.50)	Kidney (10) (1.50)
7	Pancreas (4) (2.94*)	Liver (7) (2.11*)	Pancreas (4) (0.95)	Kidney (10) (2.22*)	Esophagus (6) (2.15)	Pancreas (4) (0.50*)	Pancreas (4) (0.86)
8	Esophagus (6) (2.29)	Esophagus (6) (1.66*)	Esophagus (6) (1.44*)	Pancreas (4) (1.01)	Kidney (10) (1.22)	Kidney (9) (1.15)	Stomach (14) (2.49*)
9	Stomach (13) (2.44*)	Kidney (10) (1.98*)	NHL (5) (1.20)	NHL (5) (0.66*)	NHL (5) (1.79)	Liver (9) (0.86)	Esophagus (6) (1.06)
10	NHL (5) (0.96)	Brain (10) (0.46*)	Stomach (14) (1.97*)	Esophagus (6) (0.71*)	Stomach (14) (1.37)	Esophagus (6) (0.38)	NHL (5) (0.82*)
	AML (1) (0.46*)	NHL (5) (0.46*)	Brain (10) (0.93)	Melanoma (13) (1.38*)	Brain (8) (0.69*)	NHL (5) (0.45*)	Brain (9) (0.63*)

\* Statistically significant

White MC, Espey DK, Swan J, Wiggins CL, Ehemann C, Kaur JS. Disparities in Cancer Mortality and Incidence Among American Indians and Alaska Natives in the United States. *Am J Public Health*. 2014;104:S377-S387.

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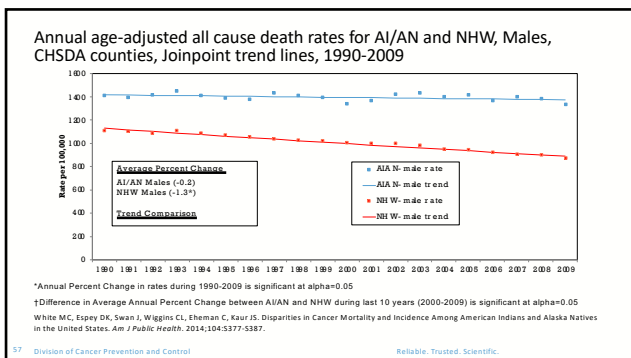
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**Top 10 cancer causes of cancer death for AI/AN Females by IHS Region: CHSDA, 1999-2009**

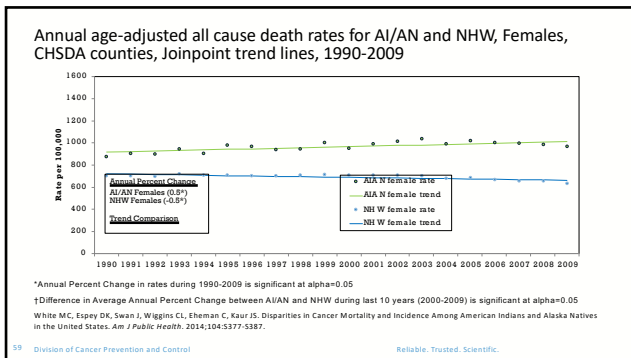
Rank	Northwest Plains	Great Plains	Southwest Plains	Southwest	Pacific Coast	East	IS
	All cancers 1.60*	All cancers 1.50*	All cancers 1.30*	All cancers 0.84*	All cancers 1.18*	All cancers 0.88*	All cancers 1.17*
1	Lung (1) 2.11*	Lung (1) 1.88*	Lung (1) 1.84*	Breast (2) 0.64*	Lung (1) 1.18*	Lung (1) 0.93*	Lung (1) 1.06*
2	Breast (2) 1.13	Breast (2) 1.30*	Breast (2) 1.18*	Lung (1) 0.28*	Breast (2) 0.86	Breast (2) 0.71*	Breast (2) 0.92*
3	Colorectal (3) 1.13*	Colorectal (3) 2.43*	Colorectal (3) 1.64*	Colorectal (3) 0.72*	Colorectal (3) 1.38*	Colorectal (3) 1.30*	Colorectal (3) 1.11*
4	Pancreas (4) 1.14	Stomach (17) 7.11*	Pancreas (4) 1.27*	Ovary (5) 1.10	Pancreas (1) 1.21*	Pancreas (4) 0.91	Pancreas (4) 1.08
5	Cervix (20) 4.15*	Pancreas (4) 1.06	Ovary (5) 1.15	Pancreas (4) 1.02	Ovary (4) 1.05	Ovary (5) 0.61	Ovary (5) 0.98
6	Ovary (5) 0.92	Liver (10) 3.14*	NHL (6) 2.40*	Liver (9) 1.14*	Liver (10) 2.98*	Liver (10) 1.67	Liver (10) 2.84*
7	Liver (12) 3.25*	Ovary (5) 1.08	Liver (11) 2.54*	Stomach (15) 3.61*	NHL (6) 1.21	Kidney (13) 1.56	NHL (6) 1.07
8	Stomach (16) 3.28*	Stomach (17) 7.11*	Kidney (9) 1.21*	Kidney (11) 2.35*	Stomach (15) 2.43*	Cervix (19) 1.63	Stomach (14) 2.77*
9	Kidney (9) 2.04*	Kidney (12) 1.91	Cervix (13) 1.98*	NHL (6) 0.91	Stomach (15) 2.47*	Stomach (14) 2.65*	Kidney (12) 2.02*
10	NHL (6) 1.11	NHL (6) 0.70	NHL (6) 0.79	Cervix (17) 2.09*	Kidney (12) 1.78*	Wyleoma (9) 1.42	Cervix (19) 2.11*

\* Statistically significant

White MC, Espy DK, Swan J, Wiggins CL, Ehemam C, Kaur JS. Disparities in Cancer Mortality and Incidence Among American Indians and Alaska Natives in the United States. *Am J Public Health*. 2014;104:5377-5387.

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**Conclusion**

- Racial misclassification can be addressed through data linkages to provide better data
- Limitation
  - IHS only covers 53.5% of the AI/AN population
- Tribal linkages

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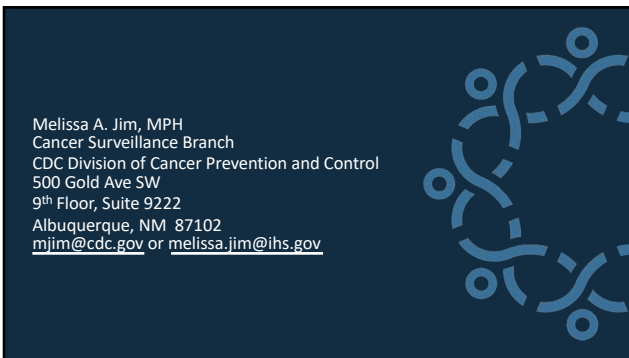
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Tomi Akinoyemiju, PhD, MS | Vivette Jeffries-Logan, BA  
Tony Locklear, MA | Angel Oxandine, BS, BSW

**Catawba Indian Nation & Levine Cancer Institute: Partners in Healing**  
Daniel R. Carrillosa, MD, MS | Melissa Wheeler, BSN, MHA  
Darcy Doege, BSN, RN

**Partnership for Native American Cancer Prevention**  
Francine C. Gachupin, PhD, MPH

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