

Improving AI/AN Cancer Surveillance

Northern Plains American Indian
Cancer Summit
10/21/2008



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Improving the quality of cancer surveillance data for American Indians

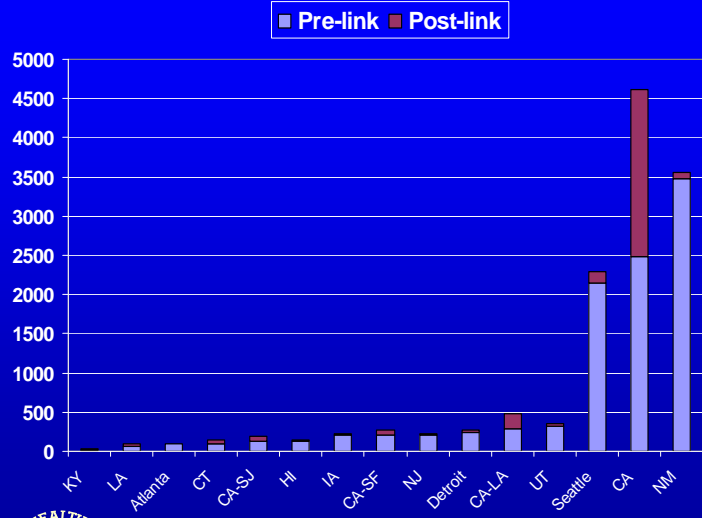
- Link records from central cancer registries (NPCR and SEER) with administrative records from the IHS (NPIRS)
- Identify AI/AN cases misclassified as non-Native
- Use “improved” data to report cancer burden of American Indians

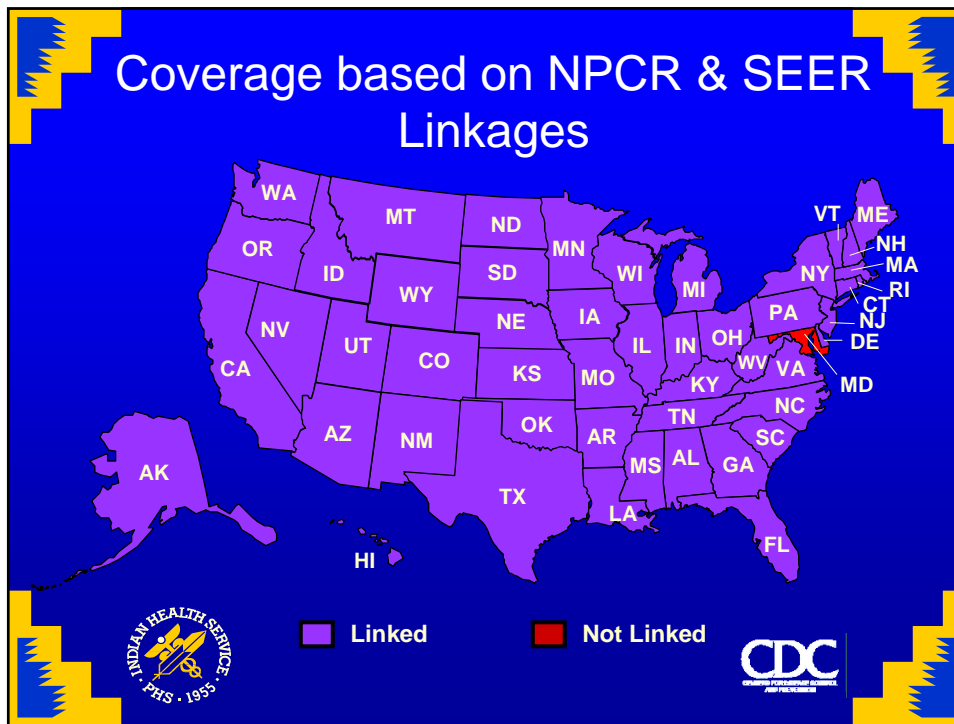


SEER Registries



Preliminary Results for SEER-IHS Linkage

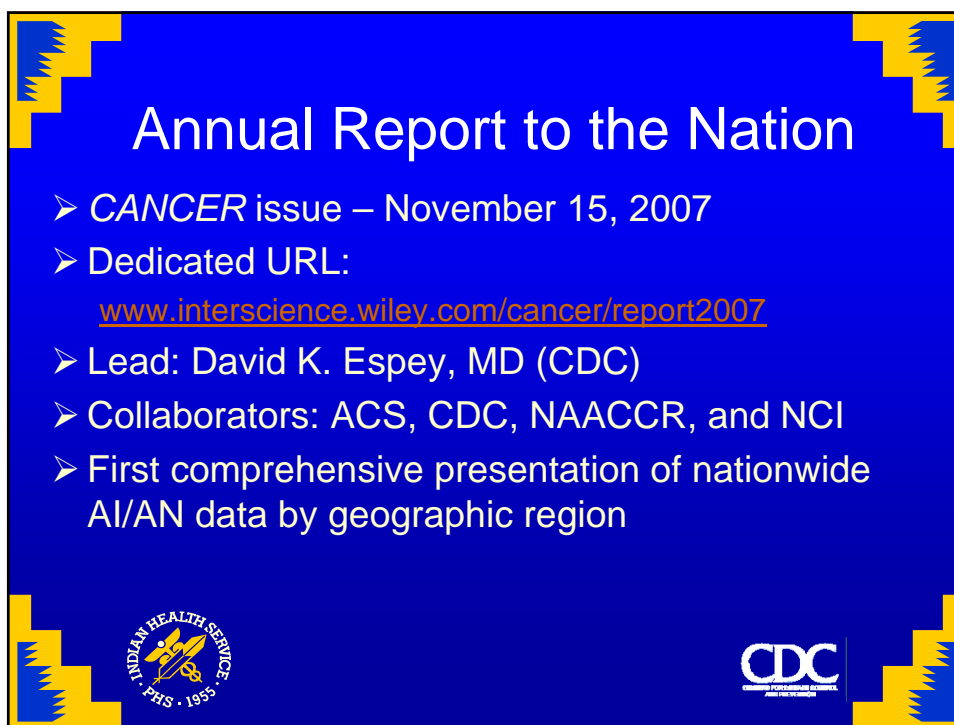
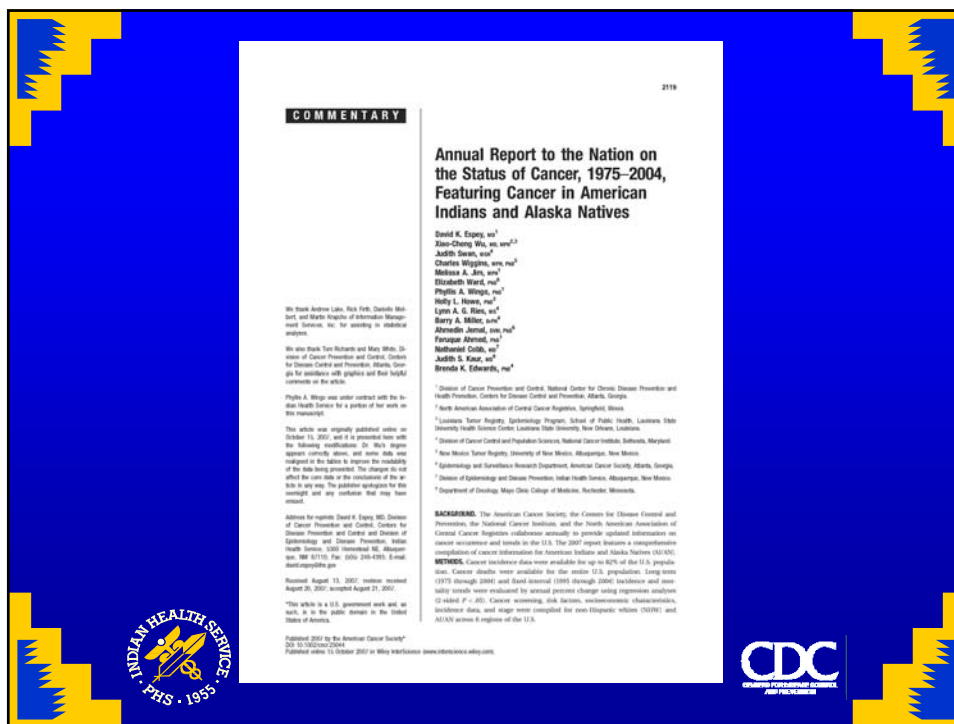


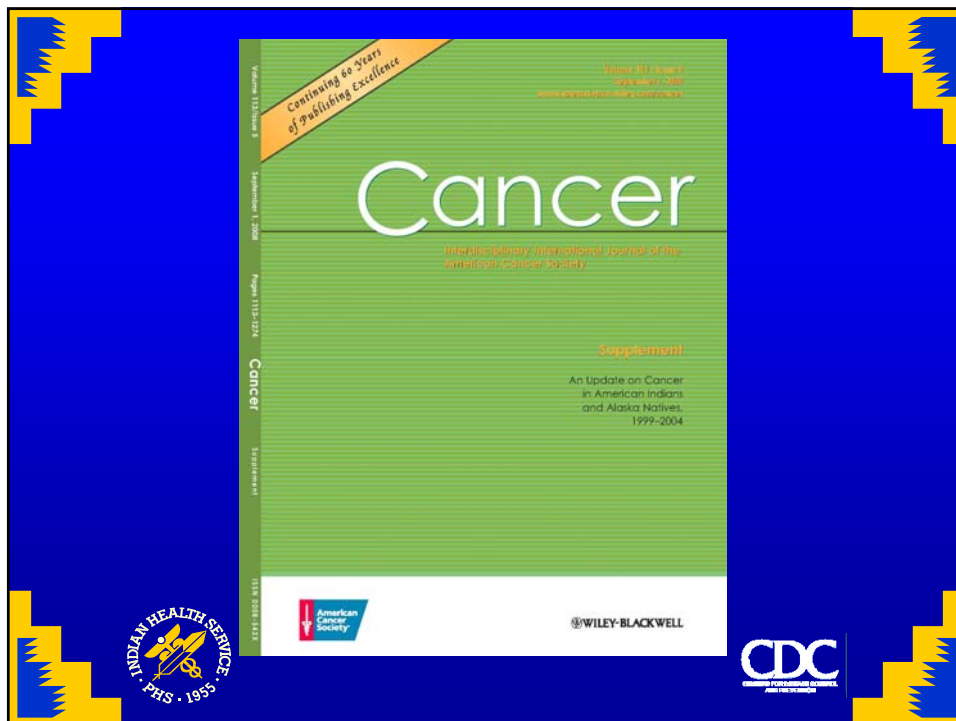
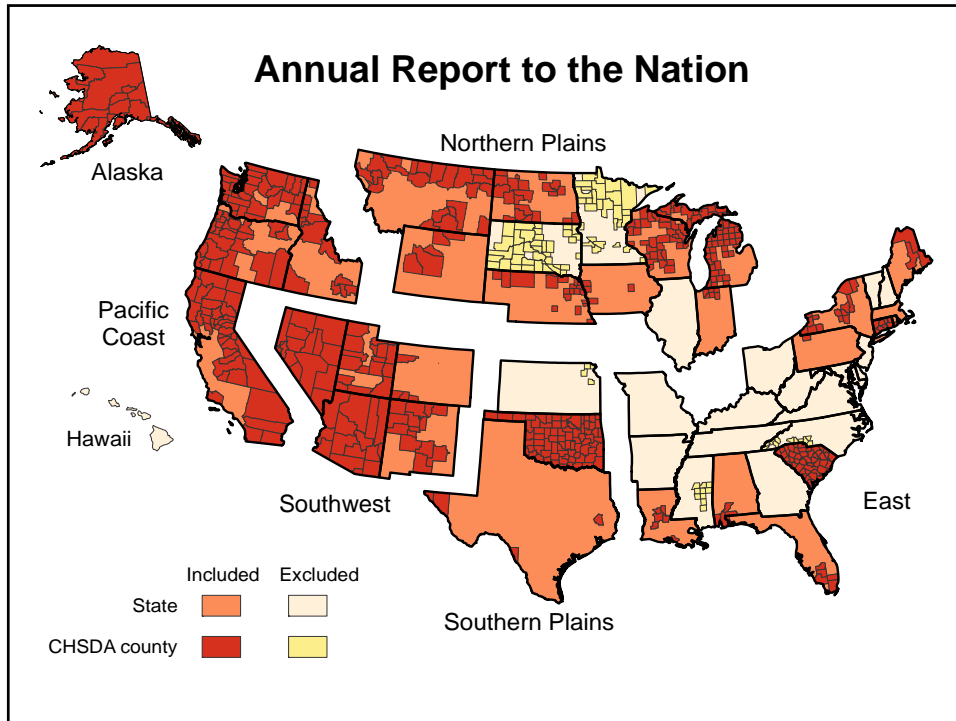


Registry linkages

- ◆ Linkage status captured in “IHS Link” variable that is part of NAACCR layout
 - ◆ Annual Report to the Nation on the Status of Cancer , 1975-2004, Featuring Cancer in American Indians and Alaska Natives
 - ◆ *Cancer Supplement: An Update on Cancer in American Indians and Alaska Natives, 1999-2004*

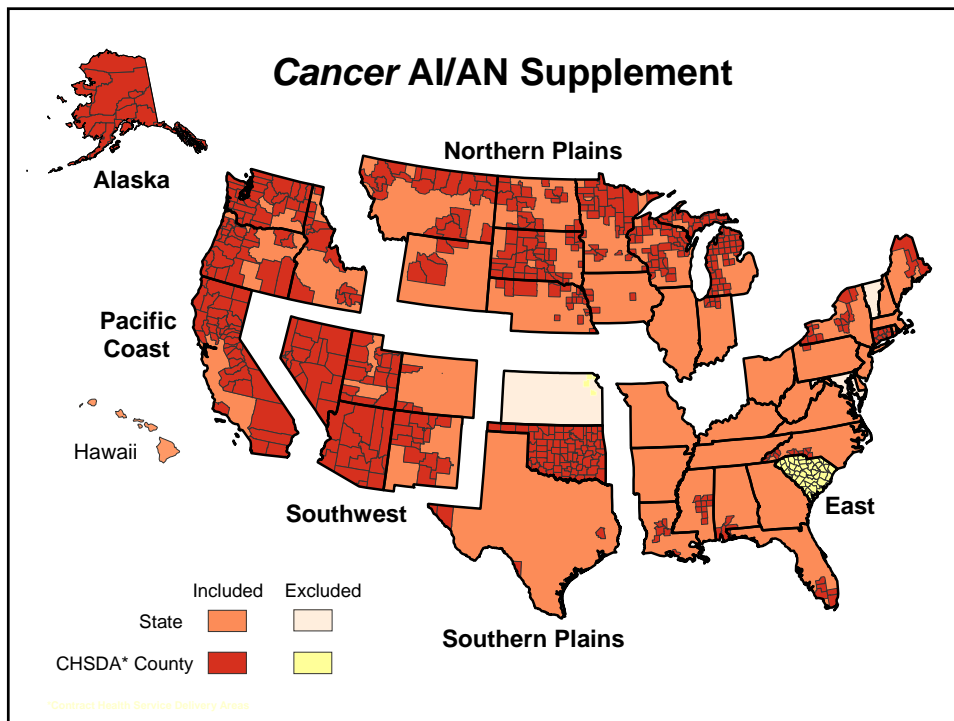
Logos: INDIAN HEALTH SERVICE (IHS) PHS • 1955 and CDC (Centers for Disease Control and Prevention)

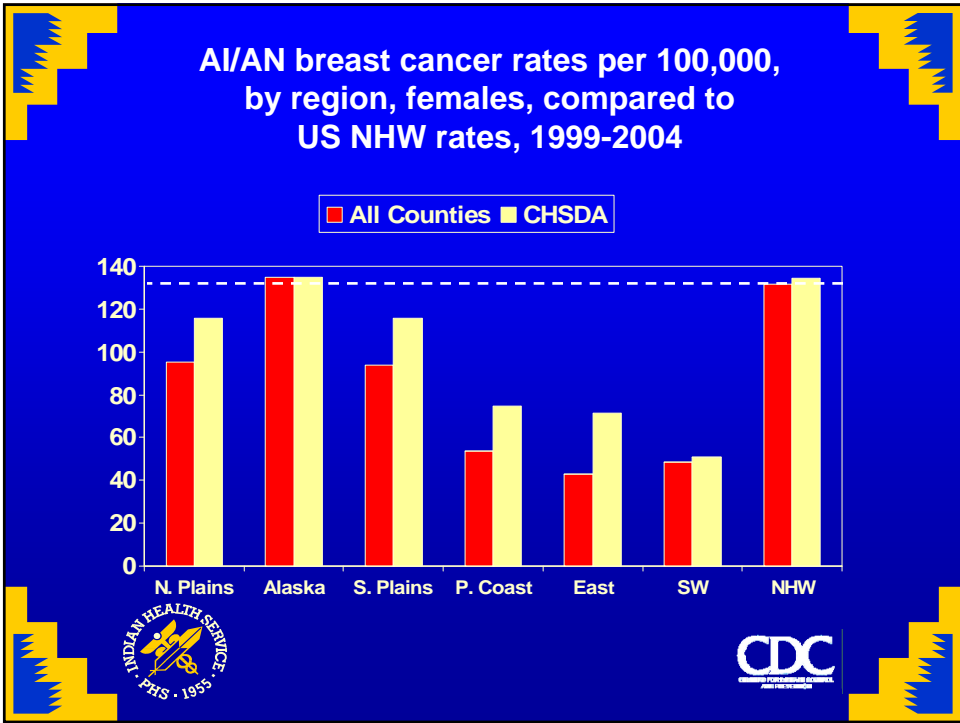
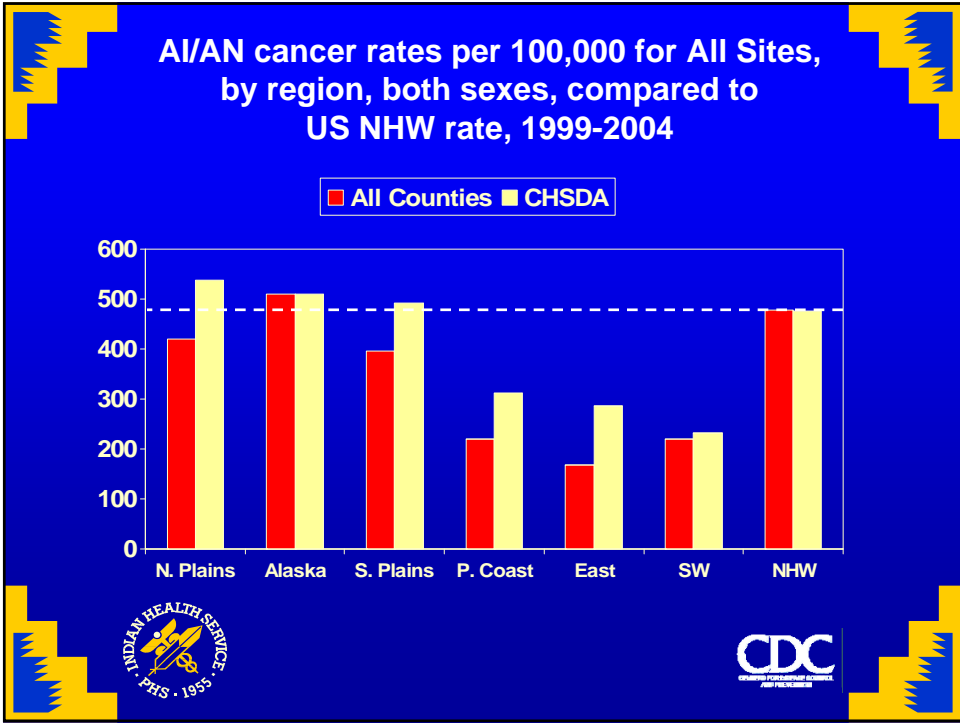


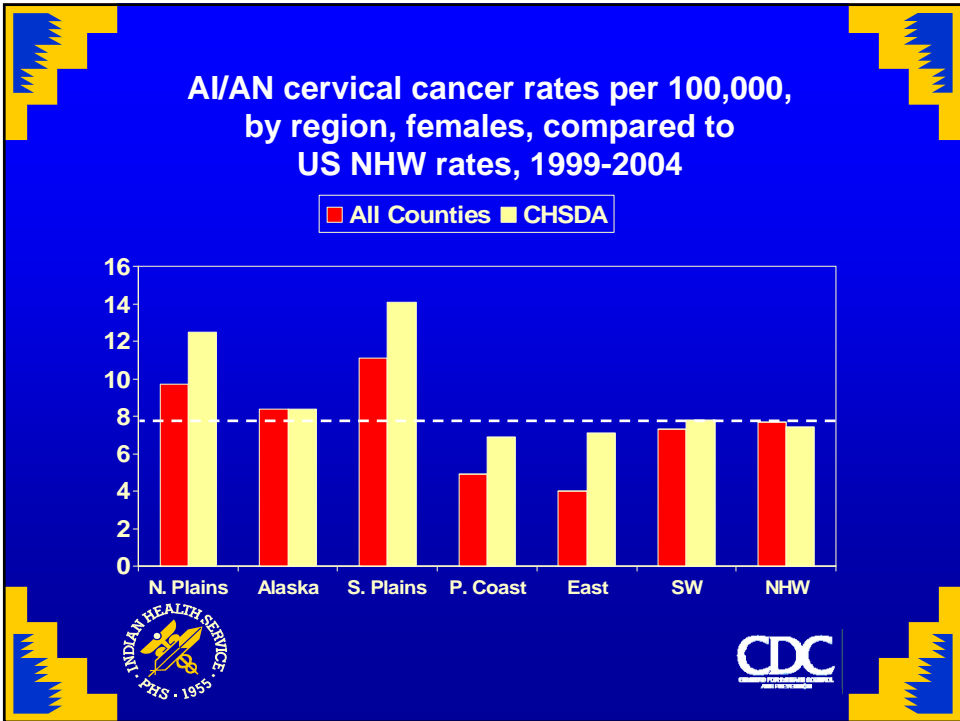
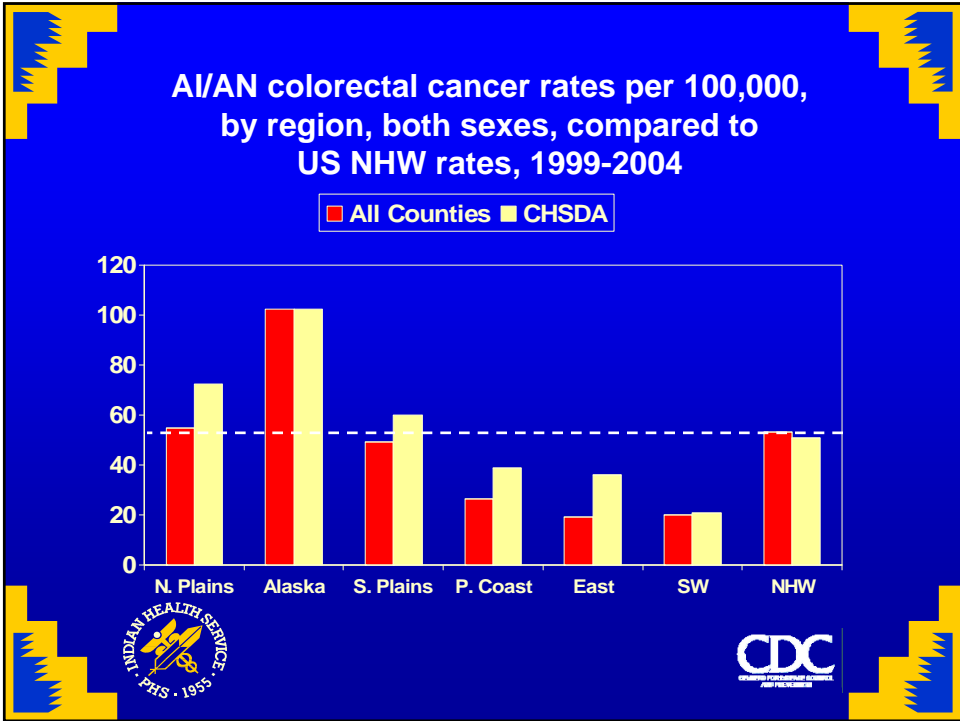


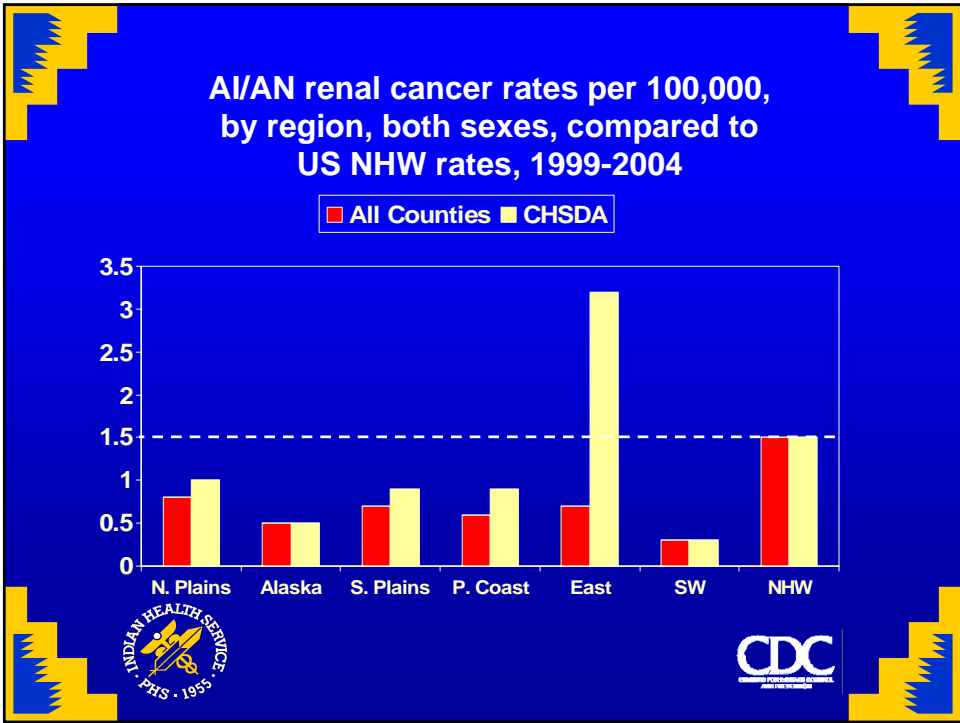
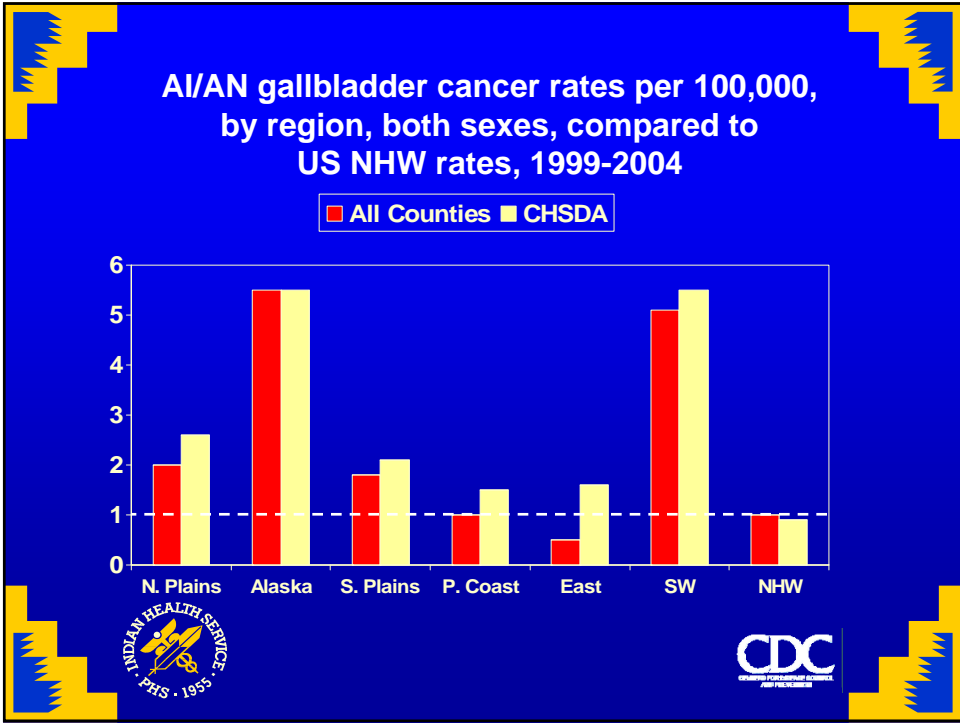
Cancer AI/AN Supplement

- Online publication date – August 20th
- Print issue date – September 1st
- Dedicated URL:
www3.interscience.wiley.com/journal/28741/home
- Lead: David K. Espey, MD (CDC)
- Collaborators: ACS, CDC, NCI, central cancer registries, academic centers, and tribal organizations

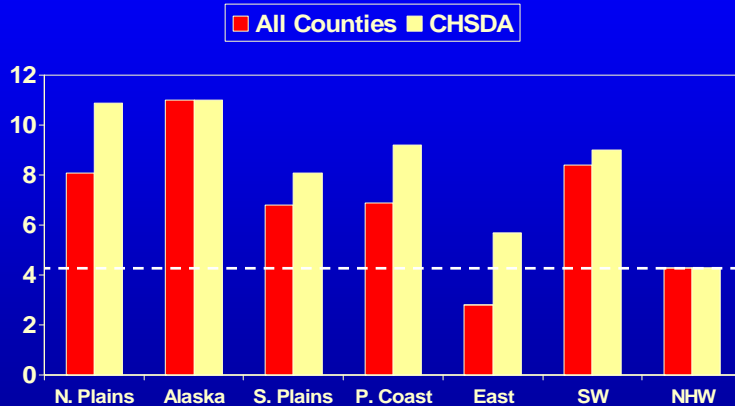




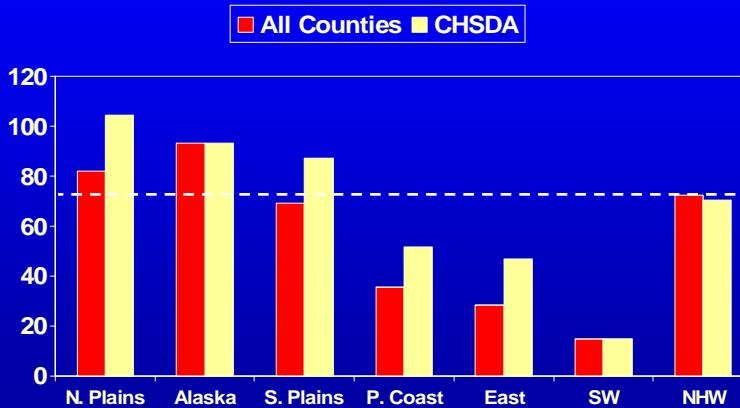


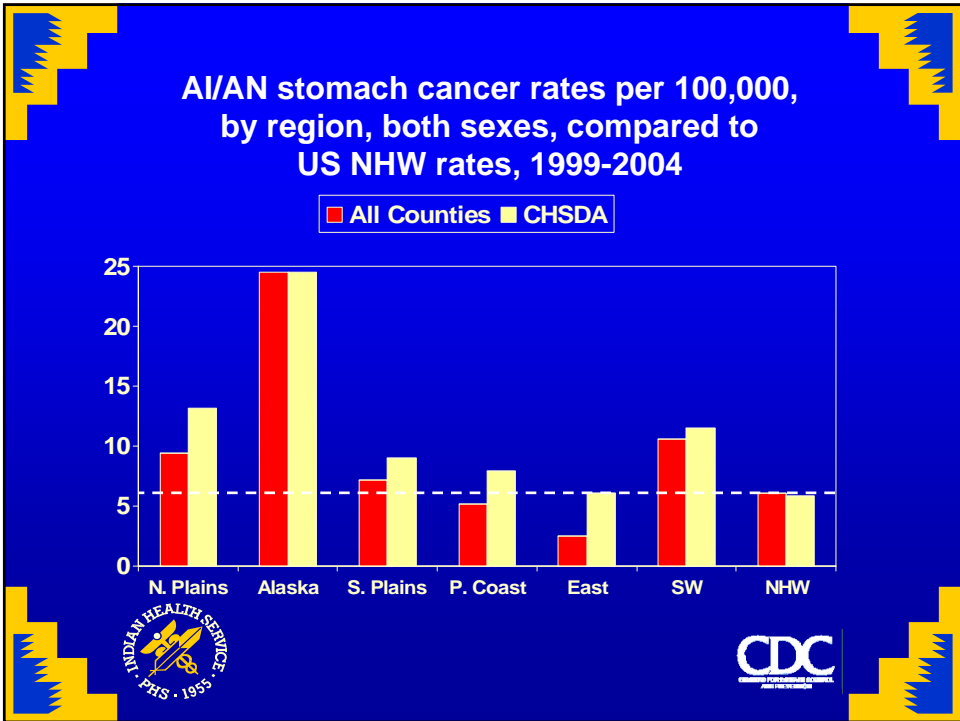
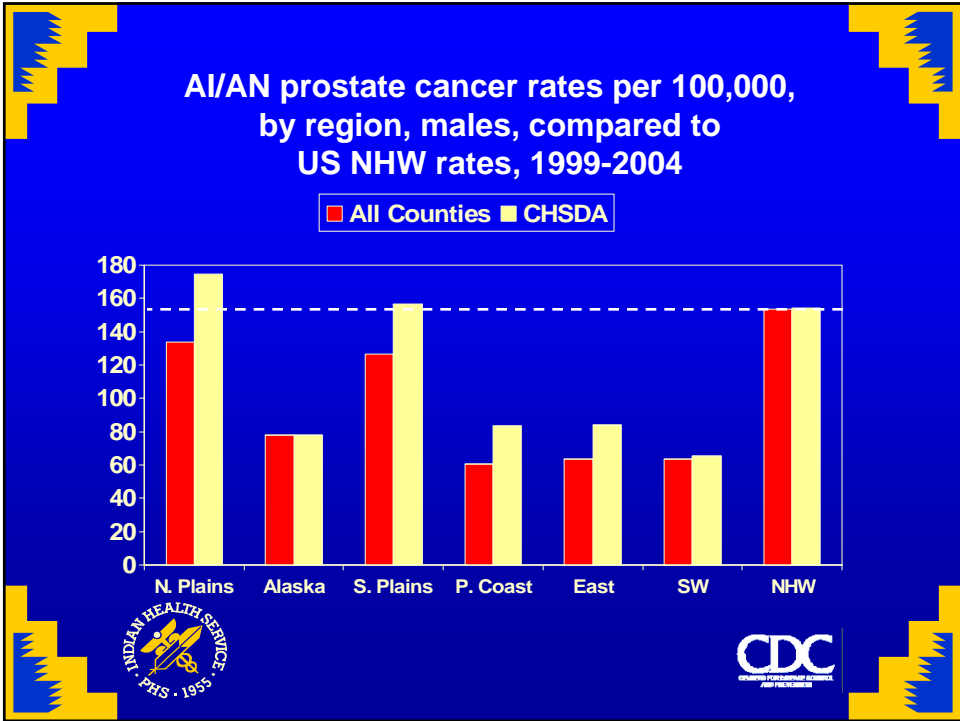


AI/AN liver cancer rates per 100,000, by region, both sexes, compared to US NHW rates, 1999-2004



AI/AN lung cancer rates per 100,000, by region, both sexes, compared to US NHW rates, 1999-2004





Limitations

- IHS only covers 57% of the AI/AN population
 - Recent linkage between a state cancer registry and a Bemidji Area Tribe
 - 1995-2004 diagnosis years
 - IHS identified 614 individuals that were not identified as AI/AN by the registry
 - Bemidji Area Tribe identified 242 individuals that were not identified as AI/AN by the registry OR by linkage with IHS



Conclusions

- Racial misclassification can be addressed by data linkages providing improved picture of AI/AN incidence data
- AI/AN populations have distinct regional patterns of cancer incidence
- Future directions:
 - Dissemination of ARN & *Cancer AI/AN Supplement*
 - Prevention & Treatment Services
 - Etiologic research

