



Oklahoma State
Department of Health

Racial Misclassification of American Indians in the Oklahoma Central Cancer Registry

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Background

- OCCR reference year 1997
- Approximately 10% of Oklahoma's population is American Indian
- Cherokee Nation Cancer Programs
 - Data exchange
 - Participation between programs

Linkage with Indian Health Service (IHS)

- OCCR links with IHS each year
- Link entire database each year
- Linked variable

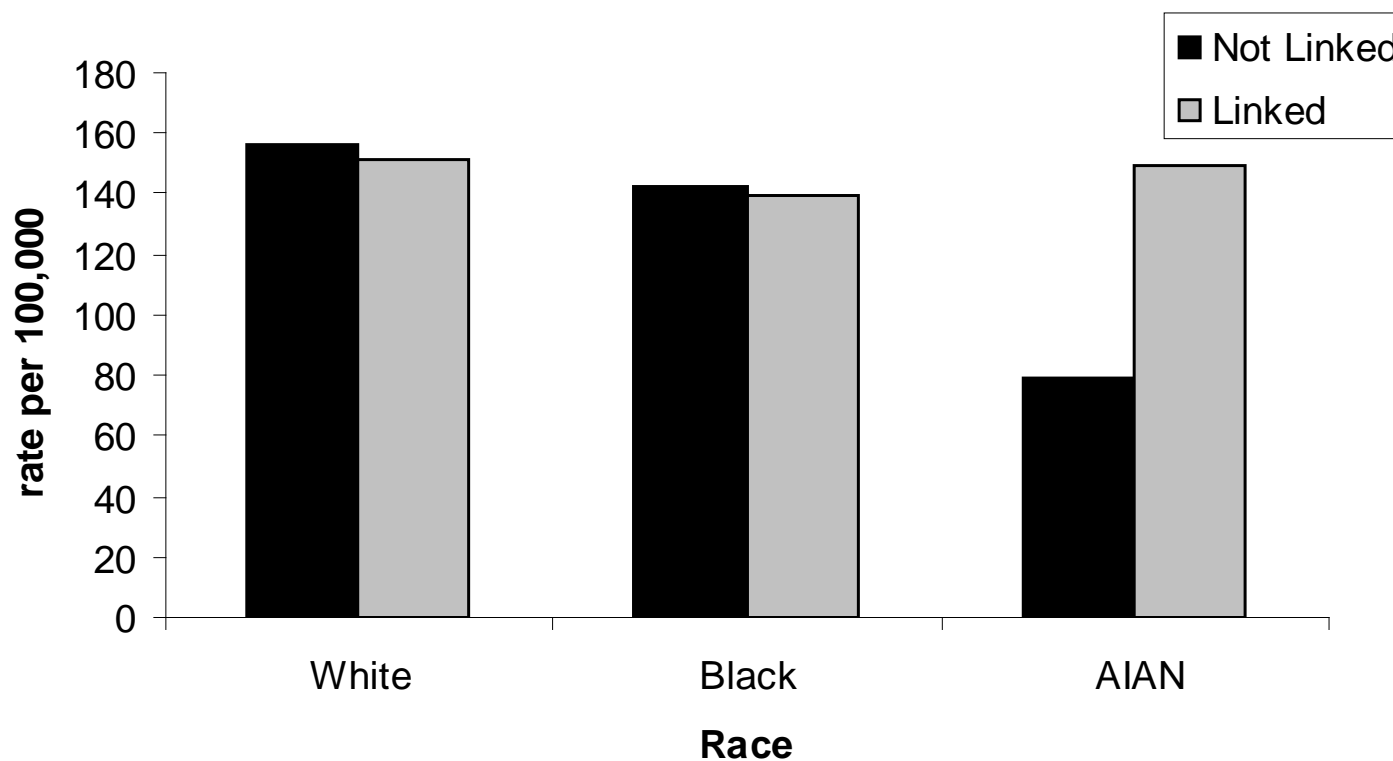
Results of the Linkage

- Average number of AI/ AN cases (all sites) prior to linkage per year = 722
- Average number of AI/ AN cases (all sites) subsequent to linkage per year = 1,212!!
- This is an average increase of 70%



Results of the Linkage

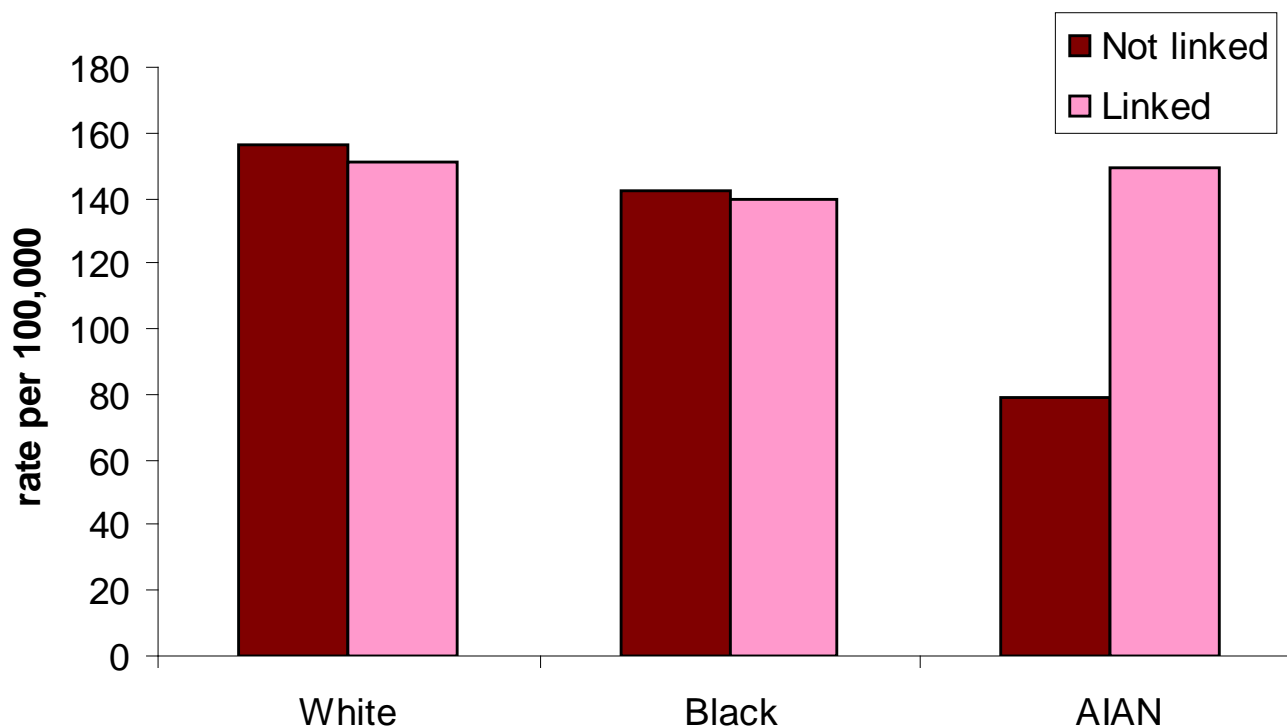
Average Age Adjusted Incidence Rates for all sites combined, linked and not linked with IHS: OCCR 1997-2007





Results of the Linkage

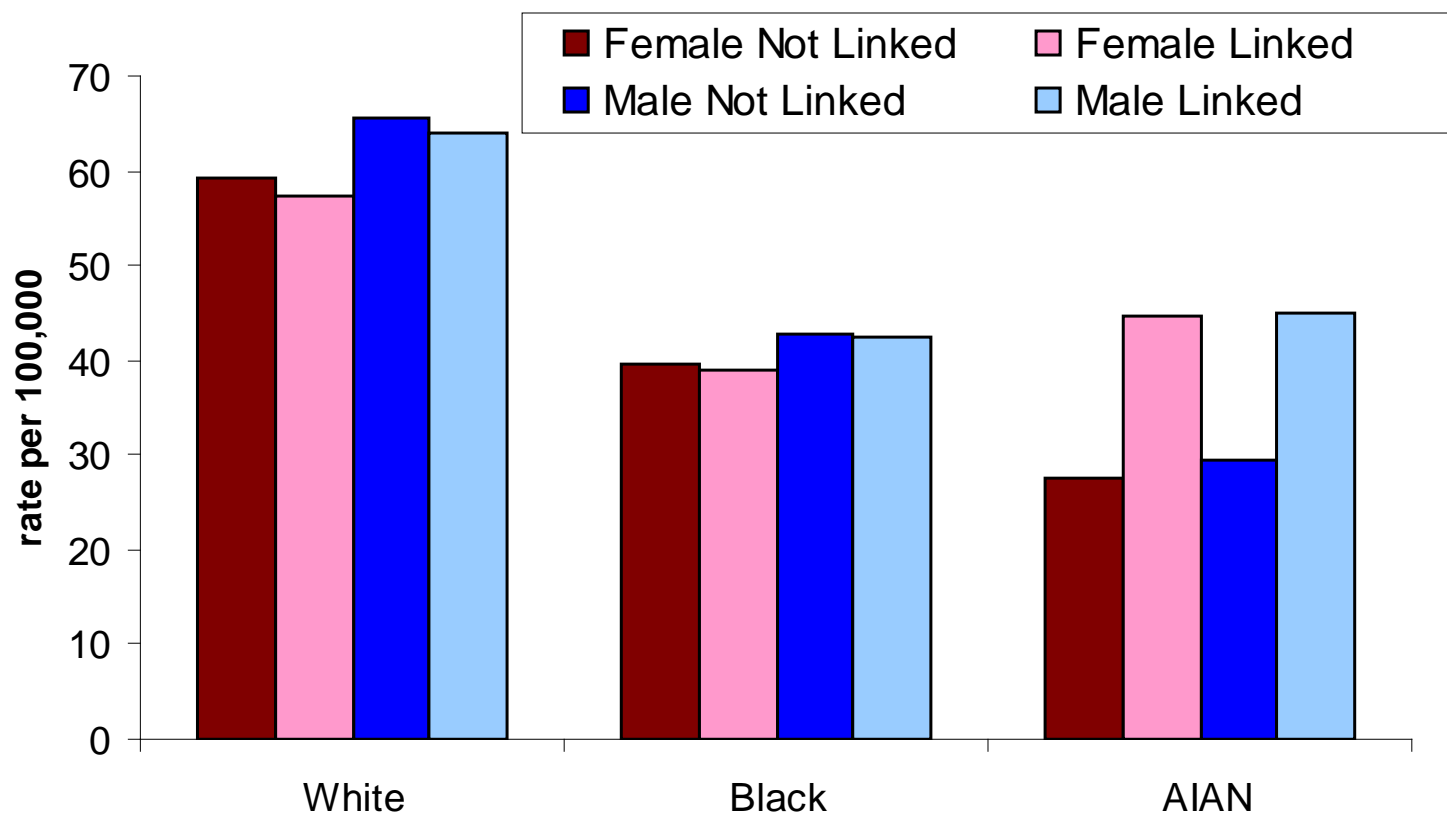
Average Age Adjusted Incidence Rates for females breast cancer,
linked and not linked with IHS: OCCR 1997-2007





Results of the Linkage

Average Age Adjusted Incidence Rates for colorectal cancer by gender, linked and not linked with IHS: OCCR 1997-2007



Benefits of the Linkage

- More accurate race-specific rates
- Beneficial for AI/ ANs throughout the state

Program Planning and Program Successes

- PoC (Breast)
 - After linkage those identified as AIAN who did not received SoC decreased from 13% to 11%.
 - Identified IHS is equal to managed care for providing standard of care.
- Small area estimates of incidence rates for Cherokee Nation TJSA



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Thank you!

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