CANCER BURDEN OF THE HOPI TRIBE: AN [EXPERIENTIAL] MODEL FOR COLLABORATION

A Joint Presentation by Lori Martin & Sylvia Brown APHA, November 5,2007

TOPICS

- **◆PARTNERSHIP MEMBERS: WHO'S WHO?**
- **◆MORE ABOUT HOP!!**
- **♦**HOW HAS THE PARTNERSHIP DEVELOPED?
- **♦ HOW HAS THE PARTNERSHIP EXPANDED?**
- **◆ PROJECT: CURRENT STATUS**

CURRENT PARTNERS

- Hopi Tribe and Hopi Women's Health Program (HWHP)
 - Lori Martin

- -Delores Ami
- University of Arizona (UA) and Arizona Cancer Center (ACC)
 - Robin Harris

-Sylvia Brown

- Kathryn Coe

- -Tomas Nuno
- Northern Arizona University (NAU)
 - Charlotte Goodluck -R. Cruz Begay
- Arizona Cancer Registry (ACR) of the Arizona Department of Health Services (ADHS)
 - Tim Flood

FUNDING SOURCES

NATIONAL CANCER INSTITUTE

1. Native American Cancer Research Partnership (NACRP)

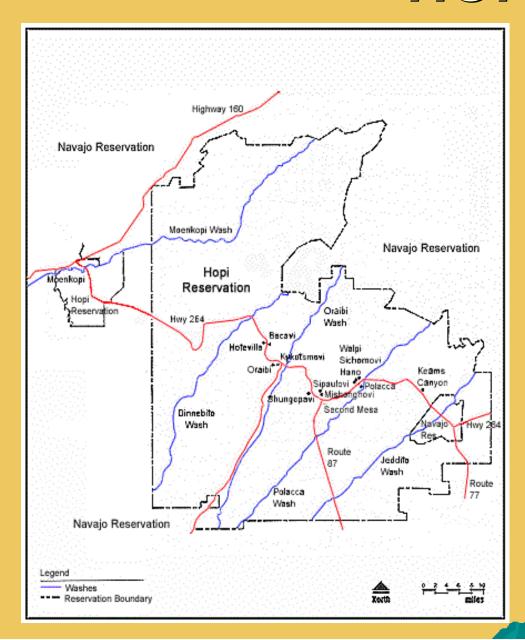
2. Southwest American Indian Collaborative Network (SAICN)

** THE HOPI TRIBE **



http://www.hopi.nsn.us/visitors.asp

** HOPI **



- Historically resident in area > 8000 years
- >2,500 sq miles
- Population

On Rez: 7,299

Off Rez: 5,143

- Tribal Government +11 autonomous villages
- •2.7 persons per sq mile

HOPI VILLAGES

First Mesa: Waalpi (Walpi)

Hanoki (Hano or Tewa)

Sitsomovi (Sichomovi)

Second Mesa: Songoopavi (Shongopavi)

Musungnuvi (Mishongnovi)

Supawlavi (Shipaulovi)

Third Mesa: Hoatvela (Hotevilla)

Paaqavi (Bacavi)

Munqapi (Moencopi)

Kiqotsmovi (Kykotsmovi)

Orayvi (Oraibi)

WALPI - FIRST MESA



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COLLABORATION



1993 KABB SURVEY

- ➤ Hopi: UA Joint effort
- ➤ Research team led by Leon Nuvayestewa from Hopi and Anna Giuliano from the Arizona Cancer Center at the UA
- Survey of Knowledge, Attitudes, Beliefs and Screening History of Breast and Cervical Cancer among Hopi Women

COLLABORATION



HISTORY OF HWHP

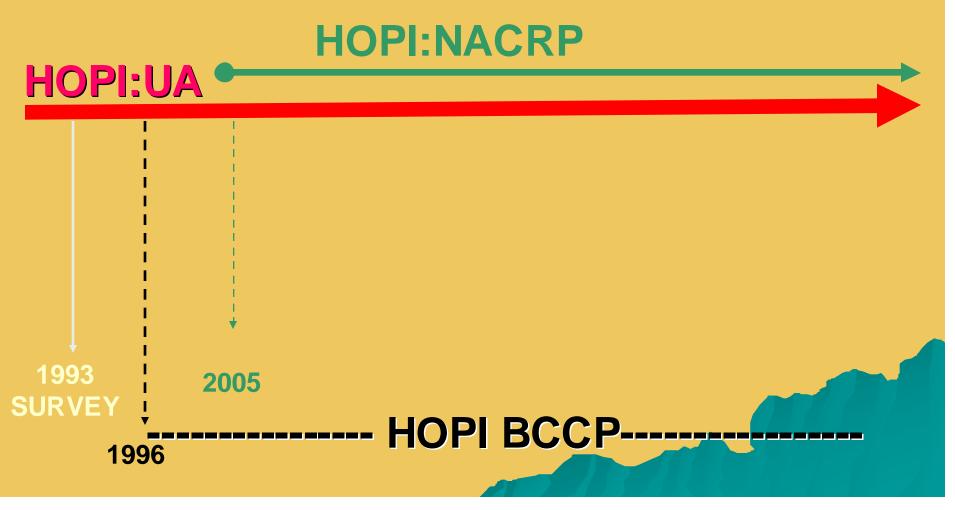
- Breast and Cervical Cancer Program (BCCP) Funded
 in 1996 program is in its 11th year
- Approximately two years to set up the program breast screening 1998, cervical screening 2000
 - Staff
 - Director
 - Case Managers (3)
 - Data Entry Specialist
 - Health Educator
 - Outreach worker
 - Secretary
 - Transportation Driver



HWHP: MISSION

"to provide early detection of breast and cervical cancer through prevention and education to reduce morbidity and mortality from these diseases."

HOPENACRP COLLABORATION



HOPENACRP COLLABORATION

2005: HWHP contacted NACRP to request a) assistance with evaluation of BCCP program and b) update of 1993 survey

2005-2006: Meetings with HWHP, Focus groups and Community Meetings held to discuss content of updated survey. The question as to how much cancer exists on Hopi was <u>frequently</u> asked by community members.

HOPLNACRP STATUS

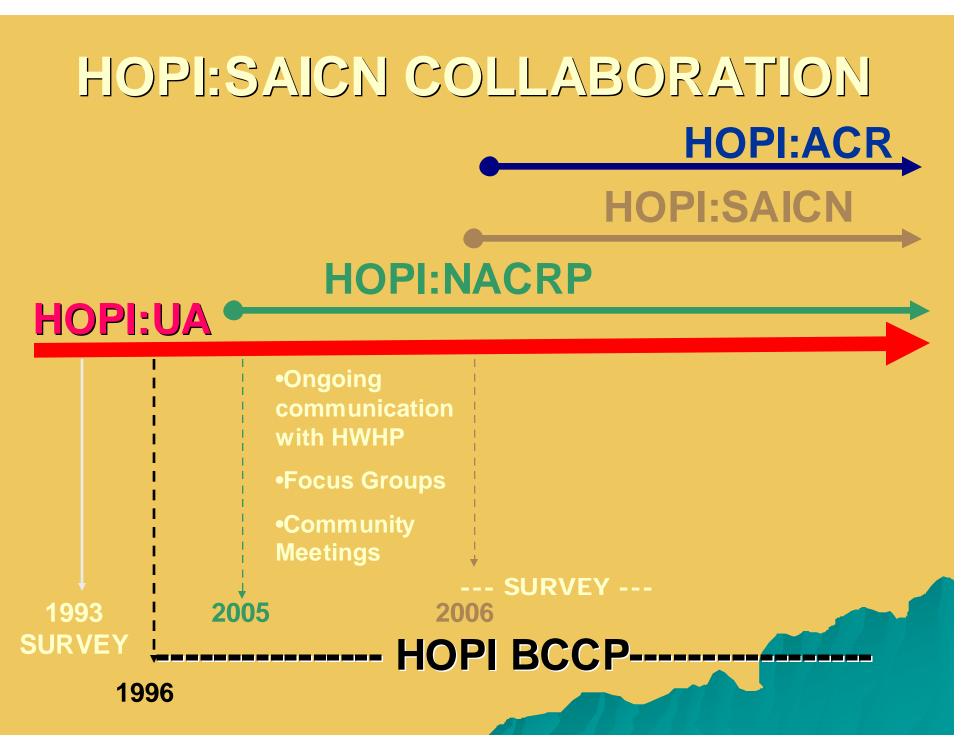
2006 SURVEY

- Field Test Completed May 2006 (n=25)
- Full Survey Completed Dec 2006 (n=224)
- Report to Tribe 10/31/07
- Publication analysis/writing underway

BCCP EVALUATION

- Reports Issued to Tribe December 2006
- Results Presented to Tribe Feb 2007
- HWHP refunded for 5 more years
- SEE APHA POSTER PRESENTATION

5009.0: Wednesday, November 07, 2007 - Board 8 - Abstract #151657- Cancer prevention in Indian Country: An evaluation of breast cancer screening efforts of the Hopi Women's Health Program



HOPESAICN COLLABORATION

GOAL: To Ascertain the Cancer Burden of Hopi People Living both On and Off the Hopi reservation

INCIDENCE: Those getting cancer

PREVALENCE: Those living with cancer

MORTALITY: Those dying from cancer

PATTERNS: Age, Stage, Geography

HOPESAICN COLLABORATION

Dec 2005: TALKS BEGAN in Kykotsmovi: Lori Martin, Kathryn Coe, Sylvia Brown

Jan 2006: TALKS EXPANDED to include Tim Flood (ACR)

2006-2007: Ongoing email and in-person meetings

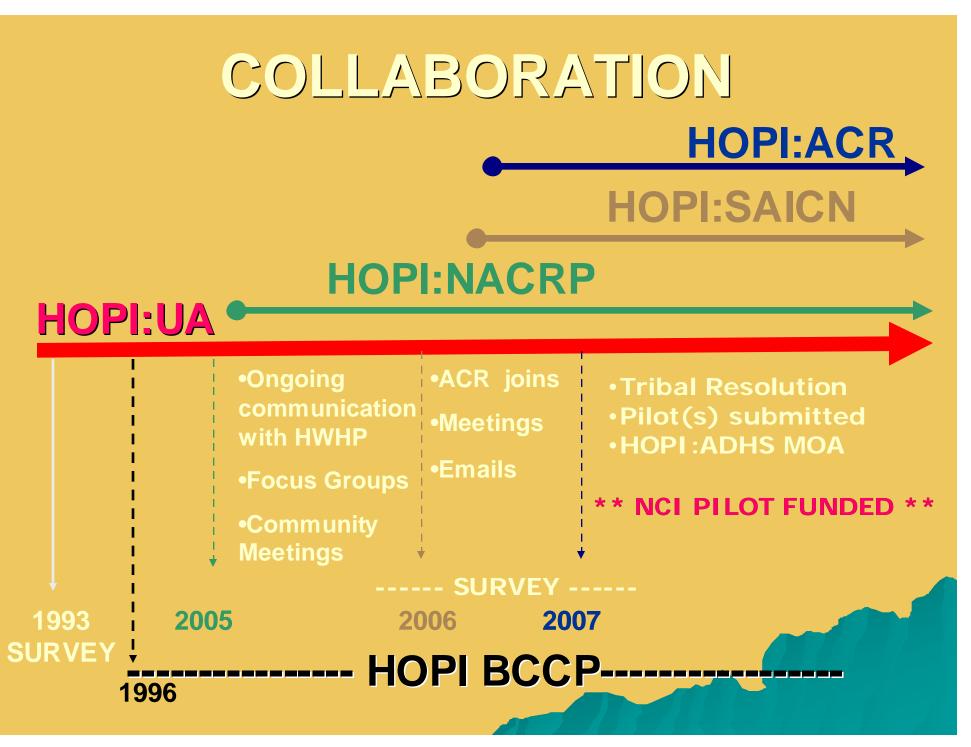
March 2007: TRIBAL RESOLUTION

April 2007: SAICN STARTUP money provided

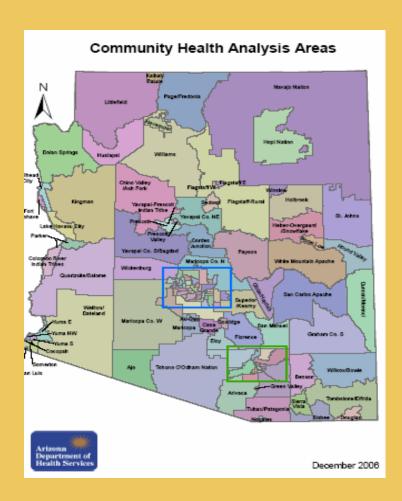
June 2007: Presentation to Hopi Officials & Health Workers

July 2007: MOA between the State of Arizona and Hopi Tribe on data exchange

Sept 2007: NCI PILOT AWARD NOTIFICATION



CURRENTLY AVAILABLE HOPI CANCER DATA



ACR DATA

- GEOCODED
- •Grouped into COMMUNITY HEALTH ANALYSIS AREAS (CHAAs)

Purpose: Convey Community

Cancer Burden

Aggregation: Block Group

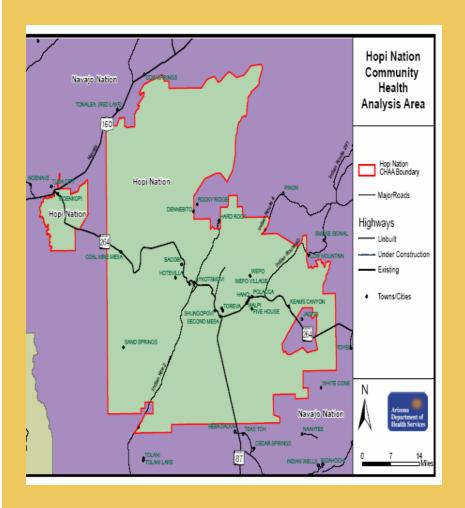
Number: 126

Reporting: All Races

Combined

http://www.azdhs.gov/phs/azchaa/chaa_base_map.pdf

HOPI CHAA



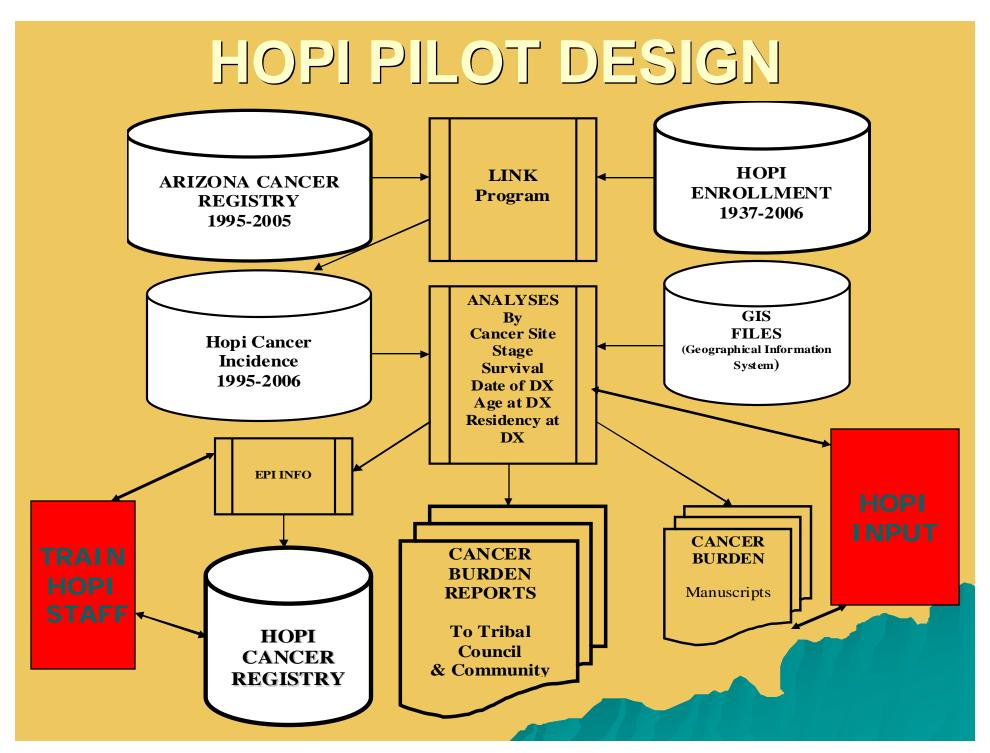
Limitations

- •Small numbers: cannot be publicly reported due to
 - rate instability
 - possible breach of confidentiality
- •Hopi CHAA reports all providing Hopi address at time of diagnosis
- Not limited to Hopi people
- Does not reflect Hopi living off reservation

http://www.azdhs.gov/phs/azchaa/maps/chaa_hopination.pdf

SOLUTION

Link ACR data to Hopi Enrollment Data



SECRET TO OUR SUCCESS

COMMON

OPEN-HONEST COMMUNICATION

MUTUAL TRUST

MUTUAL RESPECT

Tribal Sovereignty

University & State Environments











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Tim Flood: floodt@azdhs.gov







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