





A Cancer Center Designated by the National Cancer Institute

Cancer Prevention and Control Projects with Tribal Partners in Oklahoma

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1

Stephenson Cancer Center Community Outreach and Engagement Core

Goal: To promote and facilitate community engagement through partnerships, advocacy, prevention and screening programs, and community-based research in order to reduce the burden of cancer in Oklahoma.

Specific Aims:

- 1. To conduct research on cancer-relevant issues in the catchment area
- 2. To engage populations in clinical studies
- 3. To develop, implement and evaluate health policy
- 4. To extend reach and impact of SCC research locally, nationally and internationally to have the widest impact

Stephenson Cancer Center Community Outreach and Engagement Core

- 1. Facilitate collaborations with tribal and rural partners
- 2. Increase SCC research program community engagement (tobacco, colorectal cancer, lung cancer, genomics / biospecimens)
- 3. Work with SCC mHealth Shared Resource on innovative community outreach
- 4. Focus on community health education in the catchment area to increase cancer clinical trial accrual and NCI/NIH-funded projects
- 5. Continue to develop and implement cancer prevention, screening and treatment programs in collaboration with community partners

3

High Incidence Cancers in the Catchment Area

Age-Adjusted Cancer Incidence Rates per 100,000 by Race, Ethnicity and Area, 2011-2013

Cancer	US (All)	OK (White)	OK (Rural)	OK (AI)
All	448.9	466.7	474.8	611.0
Lung	61.0	68.3	73.2	100.5
Colorectal	39.4	41.3	44.9	64.6
Breast*	123.4	111.6	109.9	154.7
Cervical	7.4	8.4	9.0	11.9

* excluding in situ

Sources: US – CDC Wonder; OK – Oklahoma Central

Cancer Registry, OK2SHARE

High Mortality Cancers in the Catchment Area

Age-Adjusted Cancer Mortality Rates per 100,000 by Race, Ethnicity and Area, 2011-2013

Cancer	US (All)	OK (White)	OK (Rural)	OK (AI)	
All	165.9	183.3	191.6	251.1	
Lung	44.7	56.2	59.2	70.9	
Colorectal	14.7	16.2	18.3	28.3	
Breast*	21.2	22.2	22.8	28.8	
Cervical	2.3	2.7	3.3	4.9	

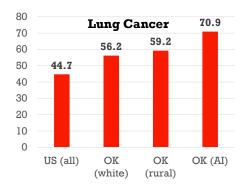
* excluding in situ

Sources: US - CDC Wonder; OK - Oklahoma Central

Cancer Registry, OK2SHARE

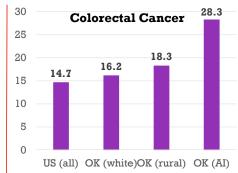
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Age-Adjusted Cancer Mortality Rates (per 100,000), 2011-2013



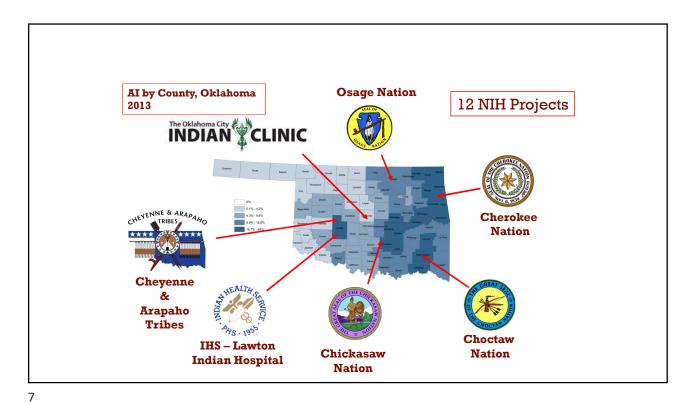
Lung Cancer Disparities:

- OK rural = 32.4% higher than US (all)
- OK AI = **58.6**% higher than US (all)



Colorectal Cancer Disparities:

- OK rural = **24.4**% higher than US (all)
- OK AI = 92.5% higher than US (all)



SCC Collaborations with Choctaw Nation (Aim 1)

Age-Adjusted, All-Cause Cancer Mortality



Choctaw Nation:

 ~ 85,000 citizens in 10 counties in SE Oklahoma



Z. Nagykaldi (CPC)



J Blanchard (CPC)

Choctaw Nation Youth Sun Exposure Survey

Colorectal Cancer Screening Implementation in Partnership with Native American Communities (P30CA225520-01S2)

Building Cancer Survivorship Research Capacity in Rural Oklahoma (P30CA225520-01S1)

Tribally Engaged Lung Cancer Screening Newly Awarded NCI grant (R01CA225439)



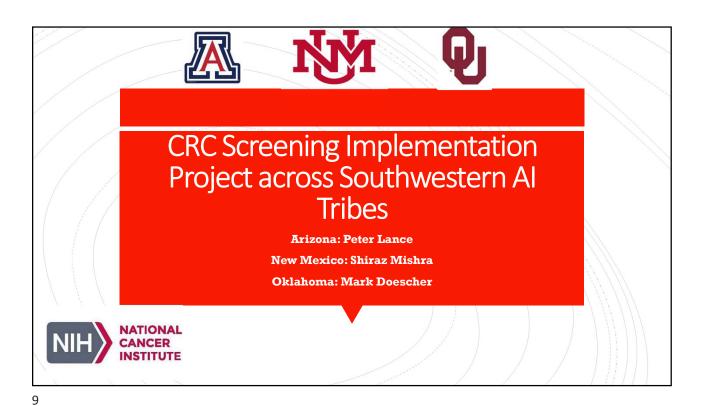
K. Dwyer (CPC)



M. Doescher (CPC)

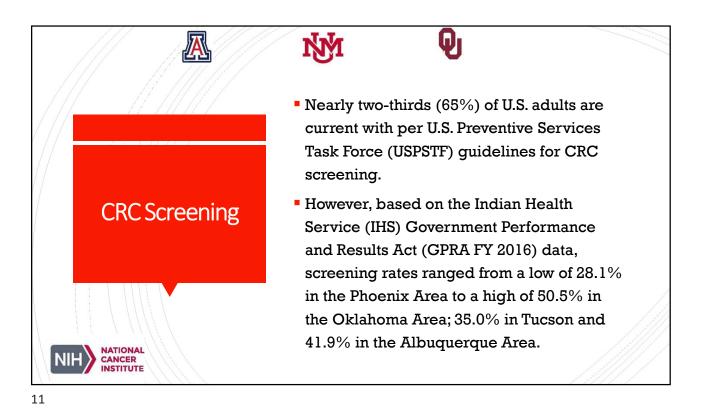


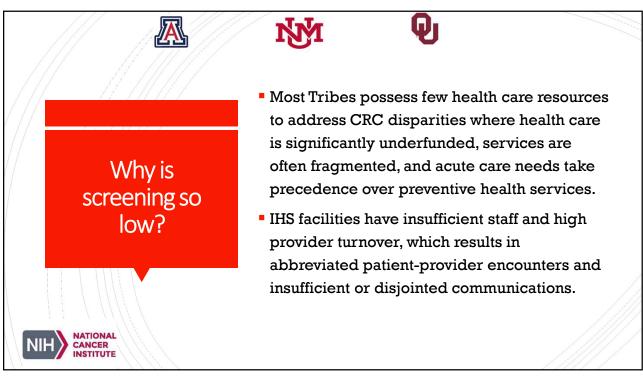
D. Rhoades (CPC), Enrolled Kiowa

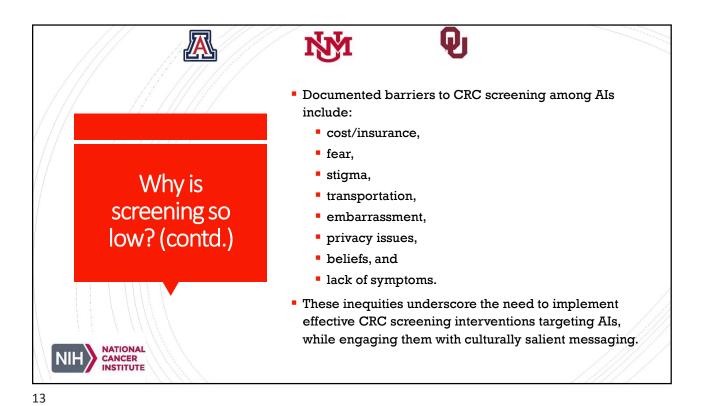


Cancer screening programs are partly responsible for declining CRC incidence and mortality in the United States.

Unfortunately, American Indians (AIs) have experienced either no change or an increase in CRC incidence and mortality, disproportionate diagnosis of late stage disease, and poorer survival.



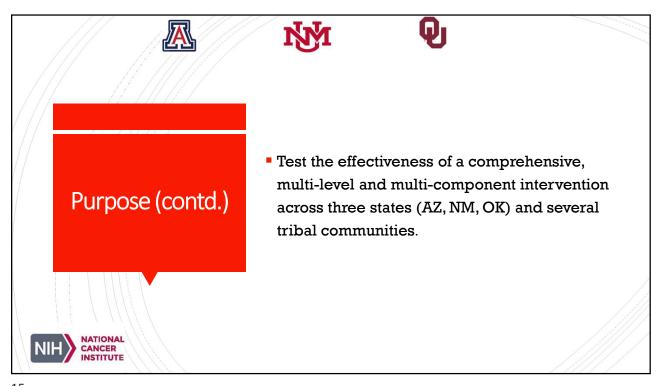


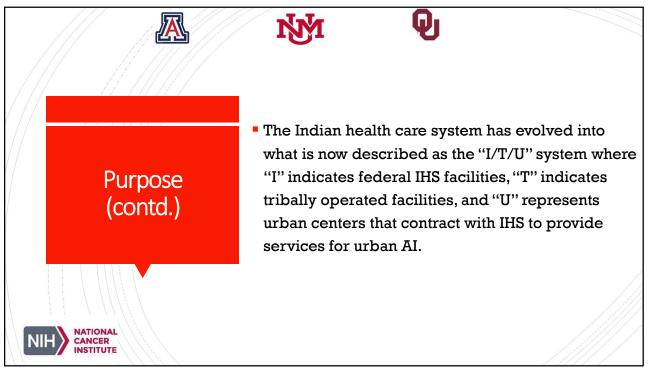


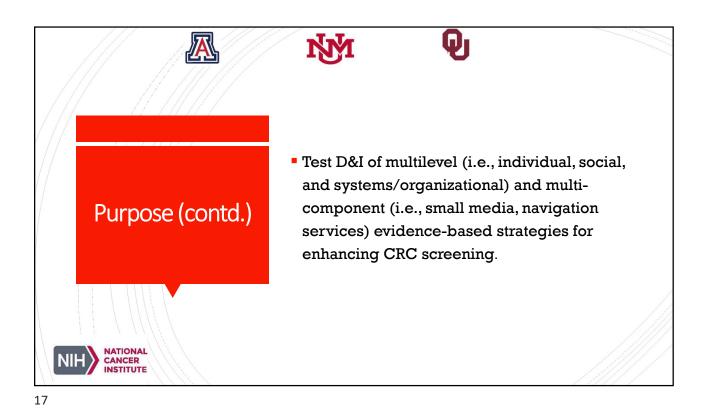
Purpose

To increase CRC screening uptake in AI aged 50 to 75 years who are at average risk for CRC

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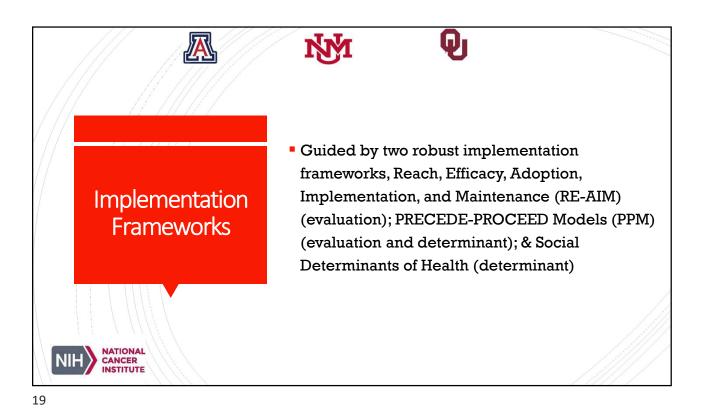


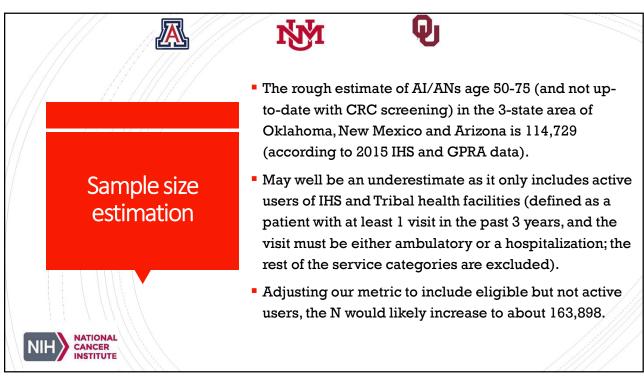
D&I Intervention
Strategy

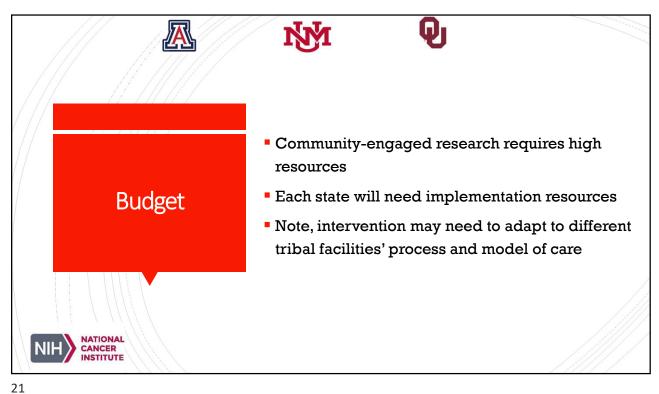
- D&I strategies drawn from the Guide to Community
Preventive Services ("The Community Guide") and are
designed:

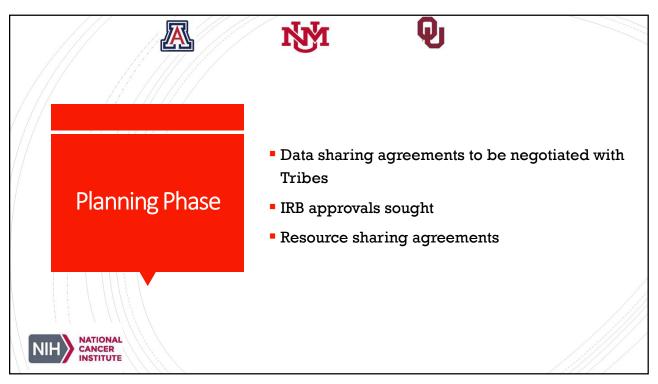
- (1) to increase provider delivery of screening services
through improved provider recommendations, patient
reminders, provider reminder/recall systems and shareddecision making tools, and novel interventions, e.g.,
reducing administrative barriers, assisting in appointment
scheduling, setting up alternative screening sites, and
modifying screening clinic hours; and

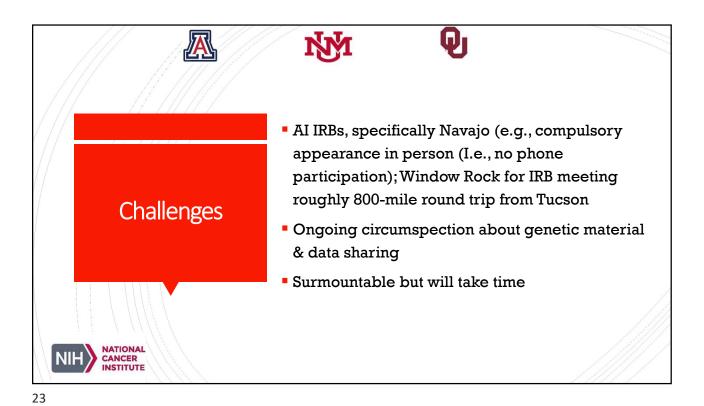
- (2) to increase community demand using culturally
appropriate educational material] and navigators to
provide one-on-one education and client reminders.











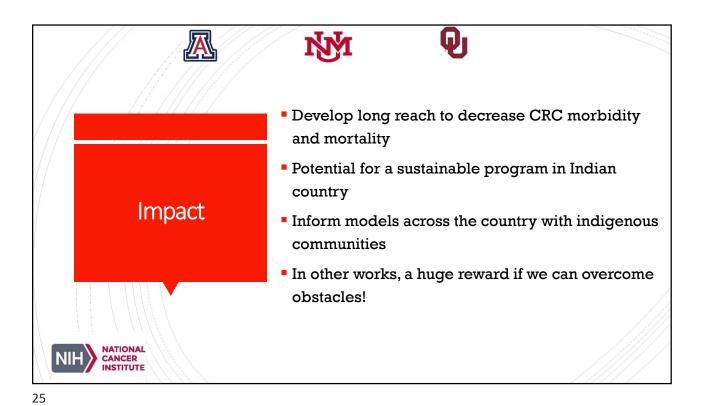
• Leverage our experiences rather than start new

• We have successfully implemented projects with AI Tribes

• Tested CRC screening interventions in community with strong results (Odds ratios 2.2 to 4)

• Strong evaluation and economic analysis

• Strong background in capacity building



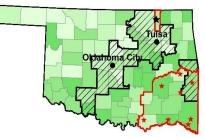
Building Cancer Survivorship Research Capacity in Rural Oklahoma P30CA225520-01S1 (M. Doescher)

Partners:

- Stephenson Cancer Center
- Oklahoma Physicians Resource / Research Network
- · Choctaw Nation Health Services Authority
- OK Cancer Specialists and Research Inst. (Tulsa)

Problem: Increasing demand for high-quality cancer survivorship care in rural locations

Approach: Deploy rural nurse cancer care coordinators to improve communication and coordination of care between oncologists and PCPs in rural settings



OK Primary Care-Oncology Survey and Initial Qualitative Research with Choctaw Nation

- PCP and oncologist expectations regarding how to help coordinate survivorship care are not aligned
- PCPs envision a much more collaborative model of care, including better information flow and shared responsibilities with oncologists
- Oncologists have ambivalent expectations about the PCP role in survivorship care
- Oncologists are more confident than PCPs that care coordination and communication are occurring and roles are defined

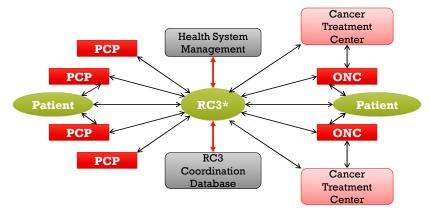
Follow-up qualitative work with Choctaw Nation involving patients, oncologists and PCPs shows that PCPs want better information from oncologists regarding their mutual patients

27

Ways Forward...?

- We need a detailed understanding of where and how information flow breaks down in cancer survivorship care
- Oncologists may benefit from opportunities to increase their understanding of capabilities of PCPs for collaborative management of cancer survivors
- PCPs may benefit from opportunities to increase their fund of knowledge re. a variety of cancer types and treatments
- The development of innovative information systems will be critical for achieving better cancer care coordination
- We believe that the use of a professional, nurse RC3 who will compile, interpret, and transmit complex, but highly relevant, information could become a cornerstone of improved survivorship care.

Rural Cancer Care Coordinator (RC3) Work and Information Flow



*RC3s facilitate the movement of relevant information in the form of diagnoses, care plans, therapy instructions, referral information, follow-up planning/surveillance, patient or clinician questions, service requests, adverse events reports and medical records.

29

Challenges and Expectations

- Challenges must be overcome
 - Healthcare systems are compartmentalized and inward looking
 - HIT systems not designed to enhance survivorship care
 - Financial incentives not aligned to promote coordinated survivorship care
 - Time pressures magnified by shortages of oncologists and PCPs
- However, this grant is helping us form durable partnerships in rural Oklahoma to address challenges
 - Rural Tribal Healthcare System(s)
 - Rural Primary Care Clinics and Systems
 - Oncology practices
- We have begun implementing one aspect of what we hope will become a multifaceted approach to survivorship care
 - Nurse RC3s

Thank You!
Questions?