# ENHANCING PREVENTION PATHWAYS TOWARDS TRIBAL COLORECTAL HEALTH

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## **GOAL AND OBJECTIVE**

Goal: Promote health equity and reduce CRC disparities in morbidity, mortality, stage-at-diagnosis, and survival among Native Americans

Objective: To test the efficacy of serially implemented graded intensity interventions to enhance CRC screening with FIT in tribal communities

SERIAL IMPLEMENTATION: offering routine FIT screening annually, irrespective of response to an earlier invitation, in concordance with guidelines (from ages 50-75)

# COLORECTAL CANCER

AMONG AMERICAN INDIANS
IN NEW MEXICO

#### **HEALTH DISPARITY**

- Colorectal cancer incidence and mortality rates have declined substantially over time, especially among Non-Hispanic Whites and Hispanics
- Native Americans . . .
  - Either no or slight change in colorectal cancer morbidity and mortality rates
  - Less screening
  - More advanced disease and lower survival rates

# COLORECTAL CANCER IN NEW MEXICO – INCIDENCE

RACE/ ETHNICITY	RATE	MALE	FEMALE
American Indian/ Alaska Native	39.4	52.0	30.1
Non-Hispanic White	31.8	35.5	28.5
All Races Combined	32.5	37.0	28.6

- o Rate per 100,000 persons 2012-2014
- Source = NM Tumor Registry, NM IBIS

# COLORECTAL CANCER IN NEW MEXICO – MORTALITY

RACE/ ETHNICITY	RATE	MALE	FEMALE
American Indian/ Alaska Native	16.9	22.3	12.9
Non-Hispanic White	12.5	14.8	10.6
All Races Combined	13.8	16.6	11.4

- o Rate per 100,000 persons 2012-2014
- Source = NM Tumor Registry, NM IBIS

# COLORECTAL CANCER IN NEW MEXICO – SCREENING

RACE/ ETHNICITY	ALL	MALE	FEMALE
American Indian/ Alaska Native	45.3%	38.1%	49.9%
Non-Hispanic White	65.1%	66.7%	63.7%
All Races Combined	61.1%	60.0%	62.0%

o % up-to-date with CRC screening

Source = NM BRFSS 2012-2014

# COLORECTAL CANCER IS PREVENTABLE, BUT...



#### **ONLY 3 IN 10**

American Indian men and women in the Indian Health Service Albuquerque Area are up-to-date with colorectal cancer screening.

Source: Indian Health Service GPRA Area Summary Report 2010

62%

of Native Americans in New
Mexico are diagnosed at regional
or distant stages of colorectal
cancer

# STUDY DESIGN

ENHANCING PREVENTION
PATHWAYS TOWARDS TRIBAL
COLORECTAL HEALTH

#### SPECIFIC AIM #1

Aim: Finalize and evaluate (using a three-arm randomized controlled trial design and mixed methods) the efficacy of serially implemented interventions of graded intensity for increasing annual CRC screening uptake

#### **Primary Hypothesis:**

- Participants receiving the high intensity intervention will have a 20 percentage point increase in screening uptake than those receiving usual care
- Participants receiving the medium intensity intervention will have a
   10 percentage point increase in screening uptake than those receiving usual care

#### SPECIFIC AIM #2

Aim: Determine (using qualitative methods) promoters and barriers to enhancing annual CRC screening practices from the perspective of:

- Participants who were "largely adherent"
   (completed FIT 2 or 3 of 3 times) and those who
   were "not adherent" (never completed or
   completed FIT only 1 of 3 times)
- Navigators
- Health care providers and medical directors at IHS health facilities

## SPECIFIC AIM #3

Aim: Conduct process evaluation (using mixed-methods) to:

- Determine the costs of completing CRC screening
- Determine fidelity of study implementation
- Develop program sustainability and scalability plans

#### **Primary Hypothesis:**

Cost analysis will indicate that the high followed by the medium intensity interventions are more cost-effective strategies to enhance CRC screening uptake than usual care

## **Group 1**

**Usual Care** 

## Group 2

**Mail Only** 



Mail + CHW







two communities

two communities





two communities

#### **OUTCOME MEASURES**

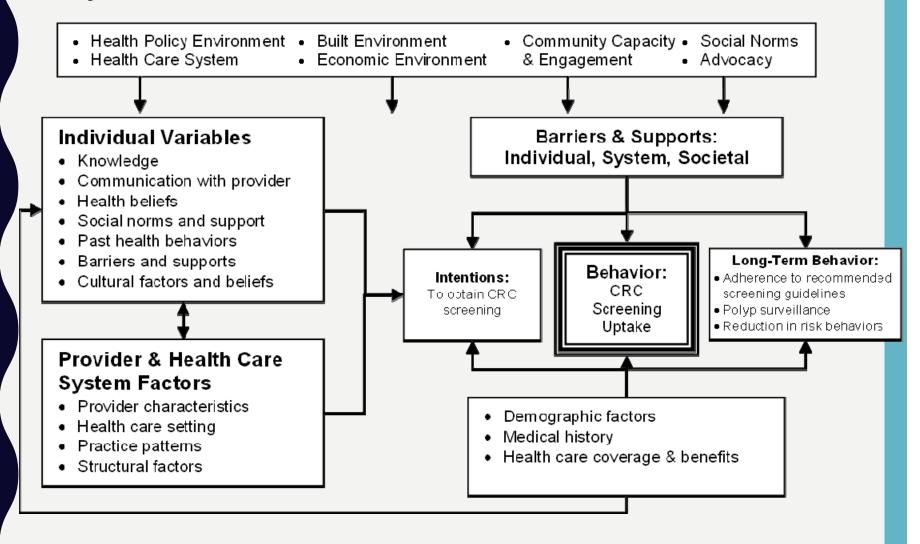
**PRIMARY:** Annual completion of FIT

**SECONDARY:** Changes in participant CRC-related ...

- o Knowledge
- Attitudes
- o Perceived Control
- Perceived Susceptibility
- Perceived Severity
- Self-Efficacy

#### THEORETICAL FRAMEWORK

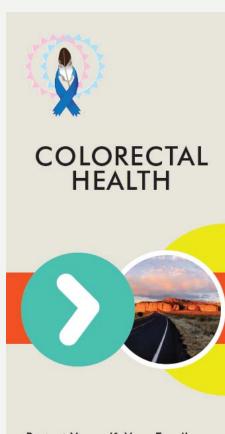
#### Figure 1: Health Behavior Framework



## **PROGRESS TO DATE**

- Hired Project Coordinators:
  - Matthew Frank at AASTEC
  - Dolores Guest at UNM
- Protocol approved by Southwest Tribal IRB and UNM Human Research Review Board.
- Applied for and received a Certificate of Confidentiality
- Protocol on ClinicalTrials.gov
- Established Community Advisory Council

#### **PROGRESS TO DATE**



Protect Yourself, Your Family and Our Community

GET YOUR SCREENING DONE TODAY!

www.tribalcolorectalhealth.org

#### INTERVENTION FINALIZATION

- Completed focus groups
- Revised educational materials accordingly
- SAM-CAM (Suitability Assessment of Materials and Comprehensibility of Materials)
  - Score = 90.3 (Superior)
- Developed, pilot tested, and finalized pre-post survey instrument

#### CONTACTS

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# Colorectal Health

Protect Yourself, Your Family, and Our Community