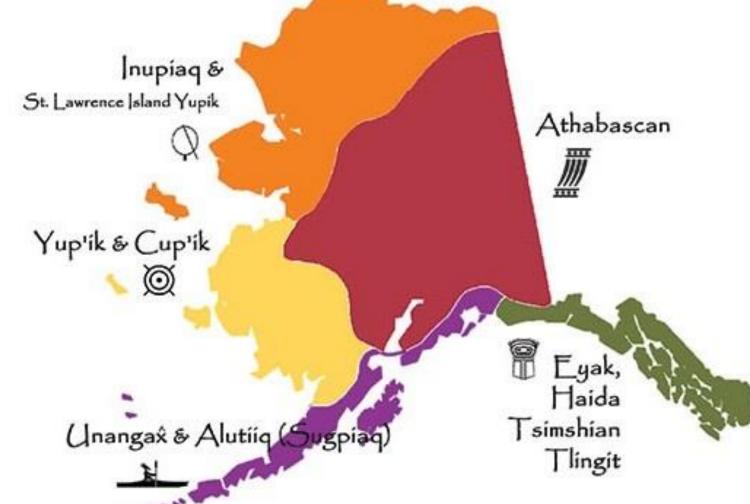
Improving Colorectal Cancer Screening among Alaska Native People using the Stool DNA Test



Traditional territories of Alaska Native Cultures





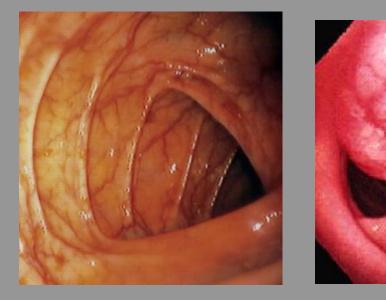


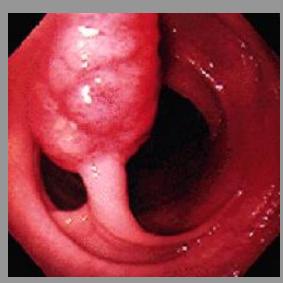
Black and Alaska Native individuals have a higher incidence of and mortality rate from colorectal cancer compared with the general population.





More than 95% of Colorectal Cancers Follow Adenoma-Carcinoma Sequence







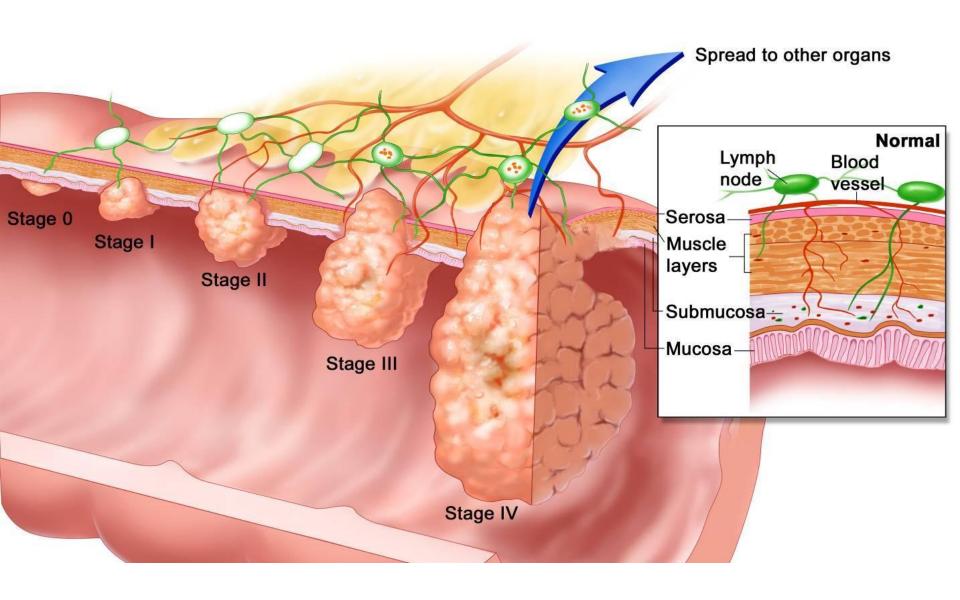
Normal Colon

Polyp

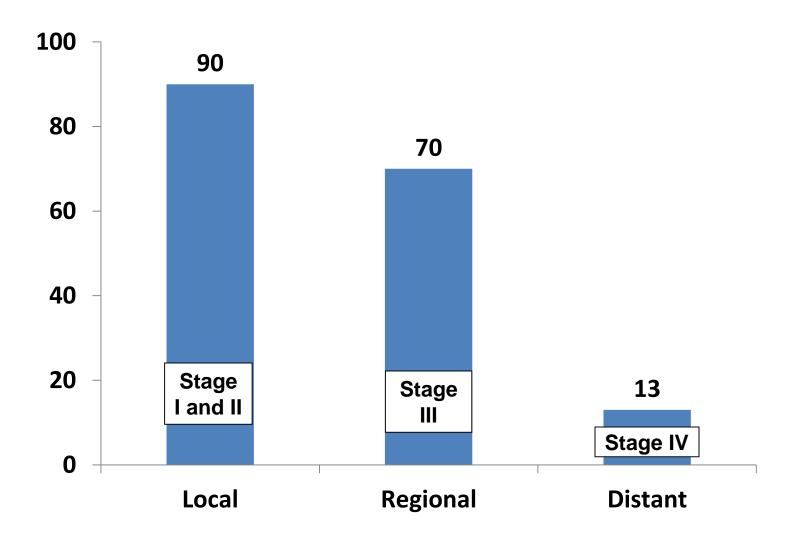


Colon Cancer

Colon Cancer

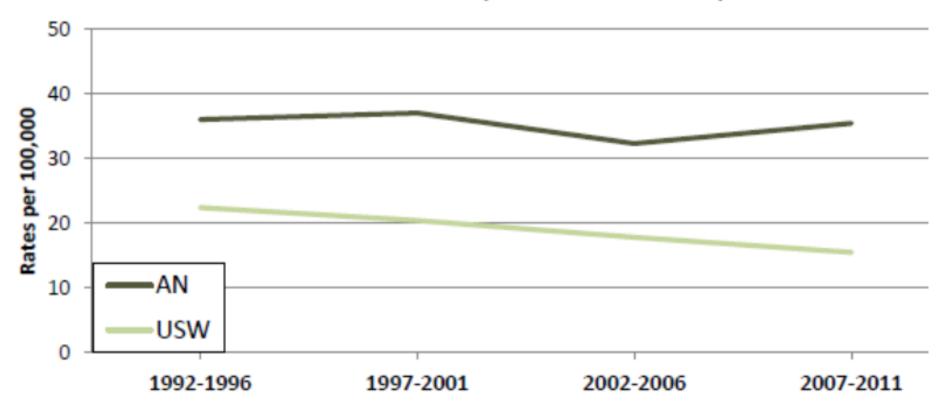


Five-Year Survival Rates (%)

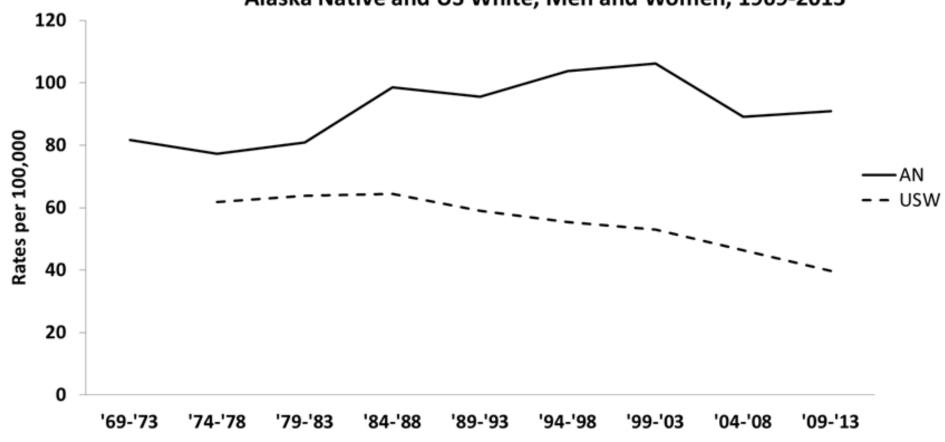


Data Source: American Cancer Society. Colorectal Cancer Facts & Figures 2014-2016.

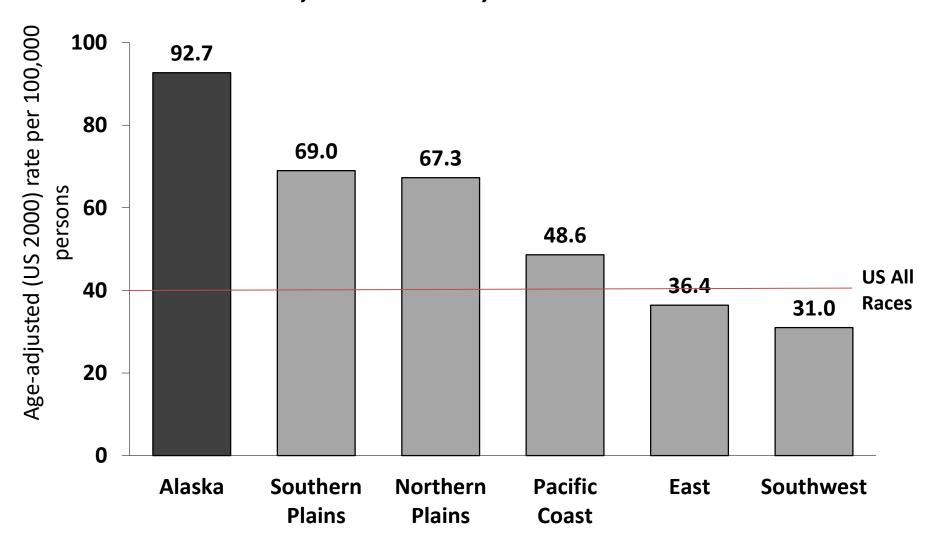
Colorectal Cancer Mortality Rates Alaska Native and US White, Men and Women, 1992-2011



Colorectal Cancer Incidence Rates: Alaska Native and US White, Men and Women, 1969-2013



Colorectal cancer incidence rates, AI/AN and NHW, both sexes, 2005-2009, CHSDA counties



Risk Factors

Non-modifiable: Age, family history

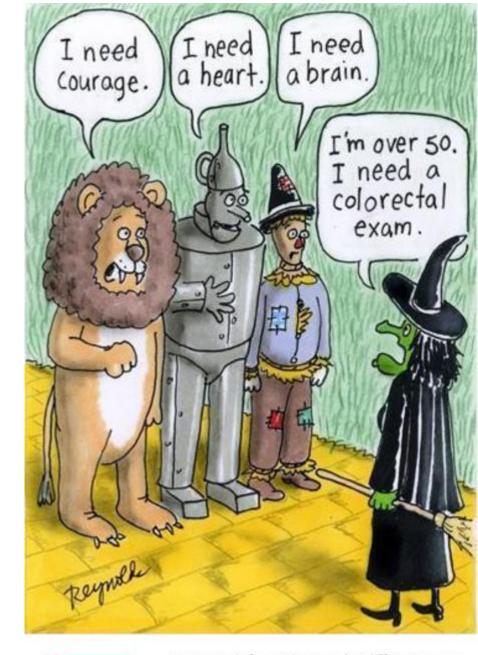


Risk Factors

Modifiable: Physical inactivity, obesity, high consumption of red or processed meats, low consumption of fruits and vegetables, alcohol use, tobacco use



SCRENING SAVES LIVES





For more information on the different ways you can be tested, call 1.800.227.2345 or visit www.cancer.org/NYNJ.

USPSTF Recommendations for Average Risk Adults Ages 50-75

Starting at age 50...

- Annual screening with high-sensitivity FOBT
- Sigmoidoscopy every 5 years, with highsensitivity FOBT every 3 years
- Screening colonoscopy every 10 years



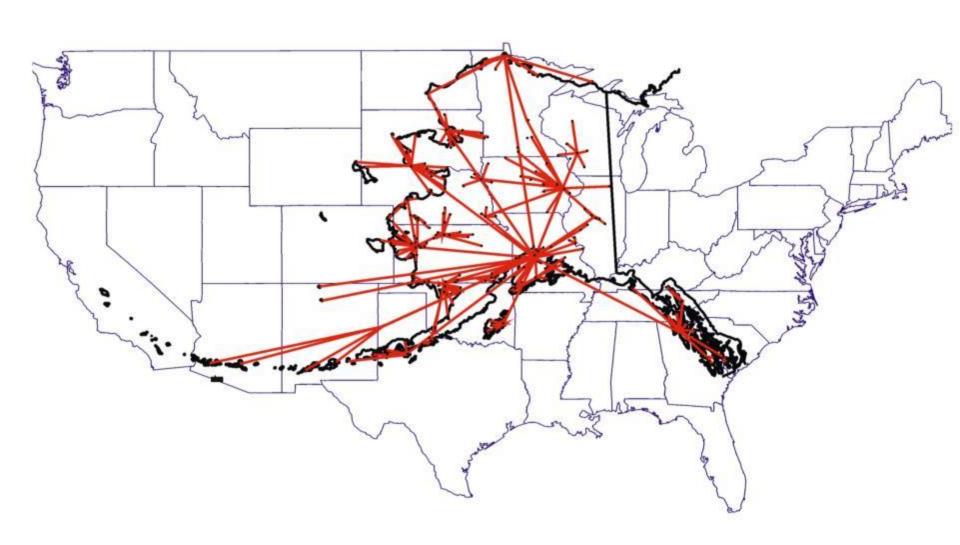
Persons at increased risk due to family or personal history should be screened with colonoscopy and at an earlier age than the general population.

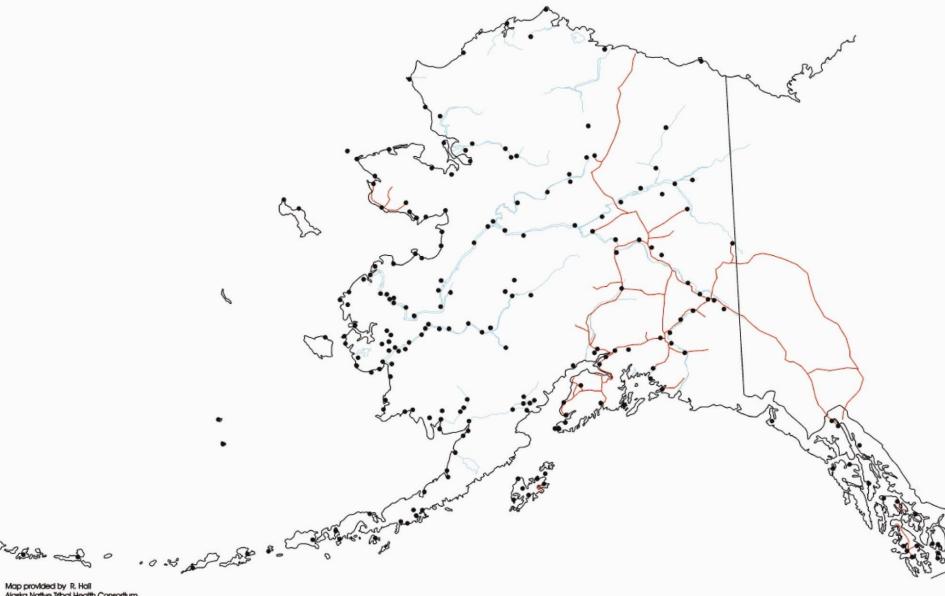
CRC screening guidelines: Family history

- CRC in a first-degree relative (parent, sibling, children) or multiple second-degree relatives (grandparent, grandchild, uncle, aunt, nephew, niece):
 - Colonoscopy every five years starting at age 40 or ten years before the youngest case in the immediate family.

THE ALASKA NATIVE HEALTH CARE SYSTEM REFERRAL PATTERN

Same Scale Comparison - Alaska Area to Lower 48 States





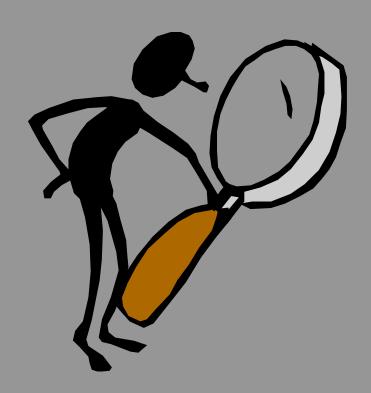
Map provided by R. Hall Alaska Native Titbal Health Consortium Division of Information Technology www.anthc.org







Why don't people get screened?



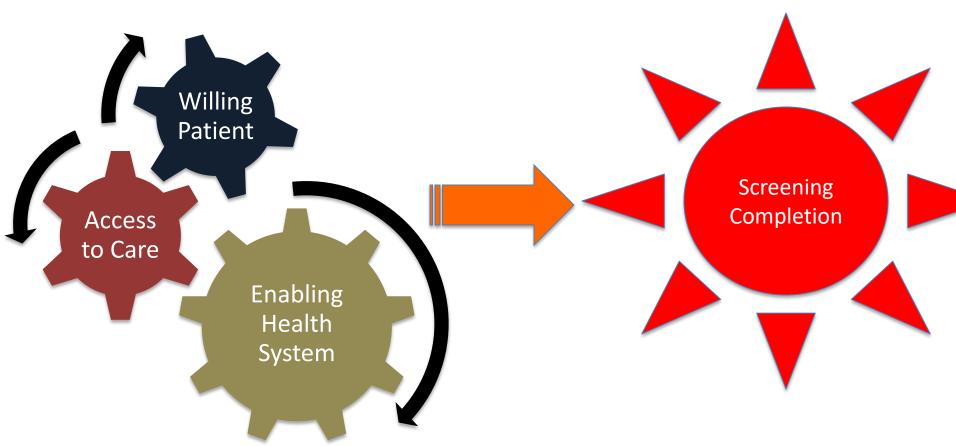
Personal factors

- Fear
- Discomfort/unpleasant procedure
- Feel healthy/don't know it's important
- Don't want to travel/too expensive
- Too busy

System factors

- Screening not available in community
- No tracking system for screening
- Provider didn't know patient was due
- No strong recommendation from provider

Cancer Screening Continuum



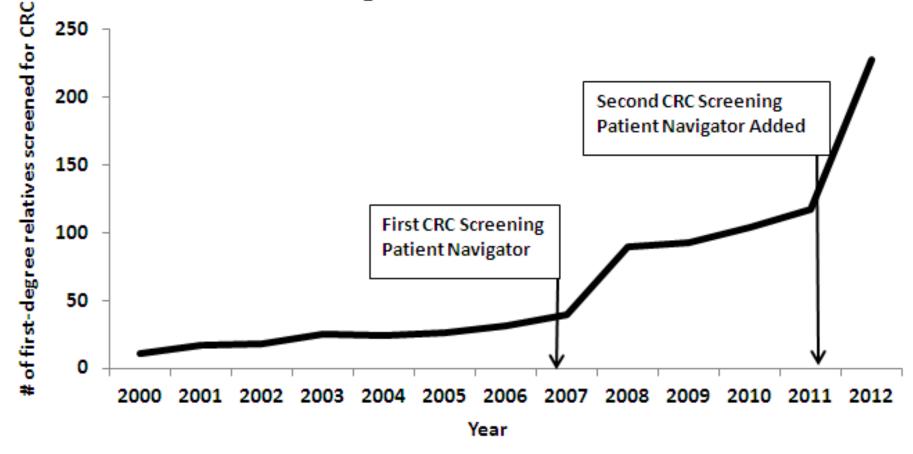


ANTHC Alaska Native
Colorectal Cancer
Family Outreach
Program





Increase in first-degree relatives screened over time





Getting Ready for Your Colonoscopy: A How-To-Video (5:04)

> Steve Gets Ready for his Colonoscopy (4:39)

> > Awakening Choices (6:45)

Getting Ready for Your Sigmoidoscopy (4:22)

Margaret Gets Ready for her Sigmoidoscopy (4:29)

> Love Your Colon :30 TV PSA

"Words of Wisdom" :30 TV PSA 2 Versions



50?

Then it's time to get screened for colon cancer. Everyone 50 and older should do it.



The cancer can prevent. alaskacolonhealth.org





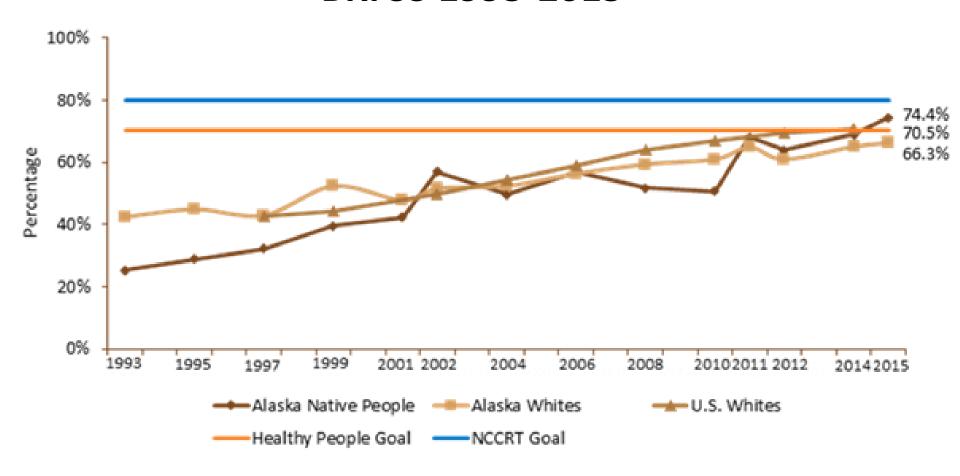






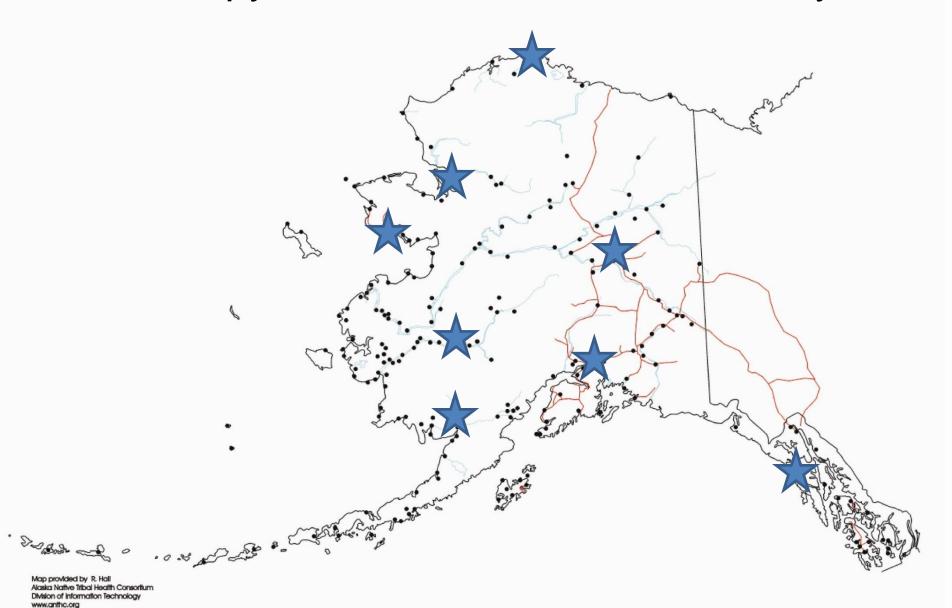


Colorectal Cancer Screening, Adults (50+ Years), BRFSS 1993-2015



Data Sources: State of Alaska, Division of Public Health, Behavioral Risk Factor Surveillance System; Centers for Disease Control and Prevention, Behavioral Risk Factor Surveillance System Note: Data presented are for flexible sigmoidoscopy or colonoscopy ever

Colonoscopy in the Alaska Tribal Health System



Alaska Cologuard Study 2012-2015

Funding provided by Schultze Family Foundation



Seeking Research Study Participants

Stool DNA Test for Alaska Native People

- Are you between 40-85 years old?
- ➤ Are you getting a colonoscopy?

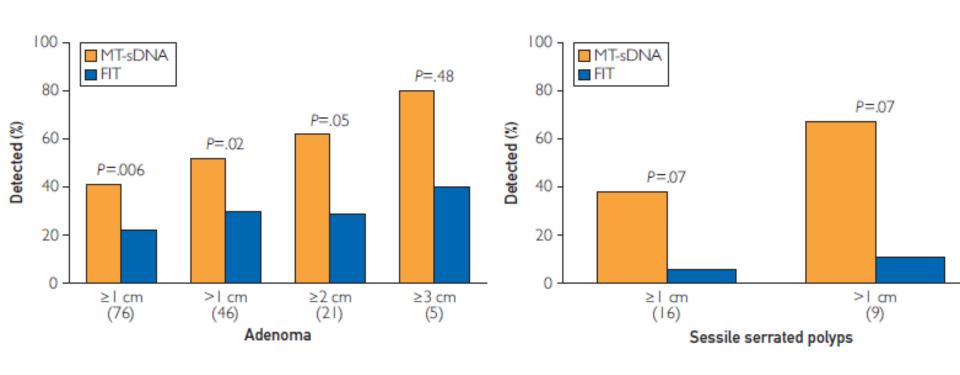


We are seeking participants for a study to see how well a new stool test works for colorectal cancer screening.

Stool DNA test (Cologuard)

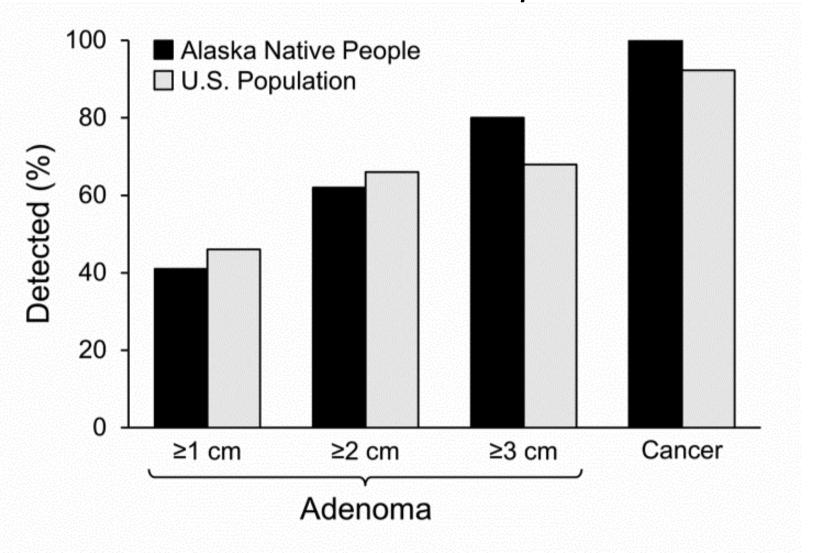


Detection of Premalignant Polyps Cologuard (MT-sDNA) vs FIT



Redwood et al. Mayo Clin Proc 2016; 91:61

Cologuard Detection of Colorectal Neoplasia Alaska Native vs General US Population Studies



Patient and provider acceptability study



Comparative economic analysis

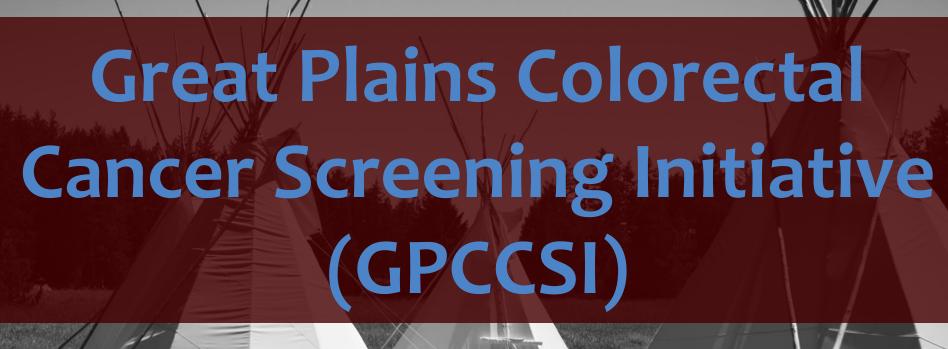


Thank You

- Study Participants
- Mayo Clinic
- ANMC Surgery Clinic and Pathology Dept
- Exact Sciences, Inc.
- ANTHC and SCF Research Review Committees

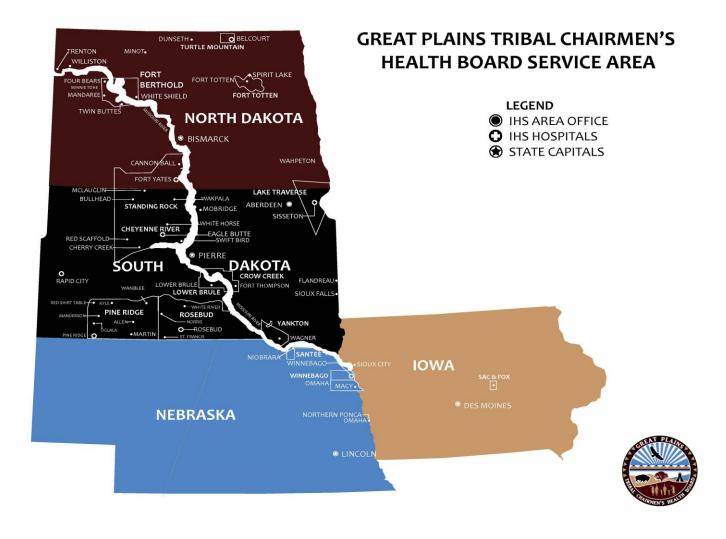


Diana Redwood, PhD, MPH Senior Epidemiologist TEL: 907-729-3959 EMAIL: dredwood@anthc.org









Tribal Healthcare and Indian Health Service Facility Partners

Cheyenne River Service Unit

Elbowoods Memorial (TAT)

Fort Thompson Service Unit

Flandreau Service Unit

Lower Brule Service Unit

Omaha Service Unit

Nebraska Urban Indian Health

Ponca Service Unit

Pine Ridge Service Unit

Rapid City Service Unit

Rosebud Service Unit

Sac and fox Service Unit

Santee Sioux Nation Health Center

Spirit Lake Service Unit

Standing Rock Service Unit

Trenton Service Unit

Turtle Mountain Service Unit

Winnebago Service Unit

Woodrow Wilson Keeble Memorial (SWO)

Yankton Service Unit



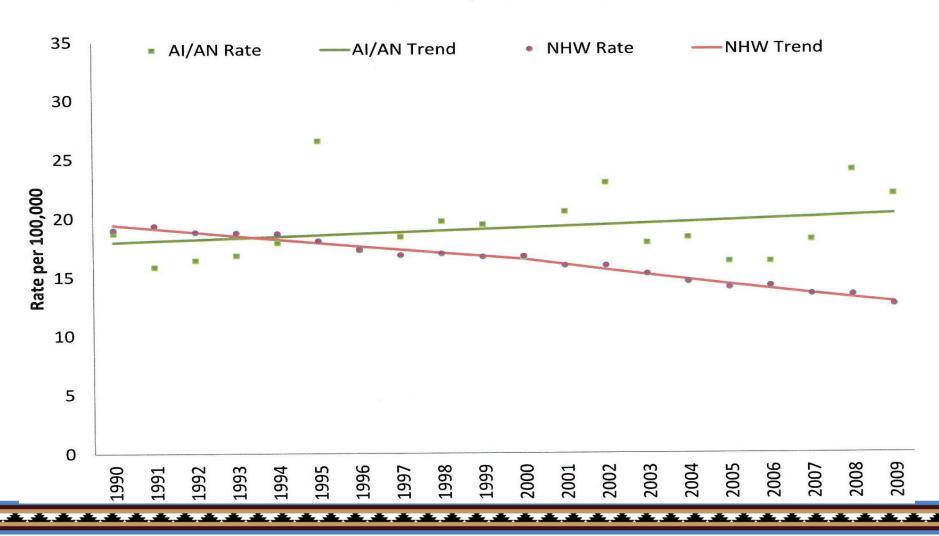
Is Colorectal Cancer Common Among American Indians?



- Yes, colorectal cancer is the third most common cancer for Great Plains American Indians.
- Occurs more often in Great Plains American Indian tribes than Whites and American Indians in other regions of the U.S. except for Alaska Natives.
- Most likely to affect American Indian men and women over the age of 50.



Age-adjusted Colorectal Cancer Death Rates and Joinpoint Trend Lines in CHSDA Counties, 1990-2009, Females



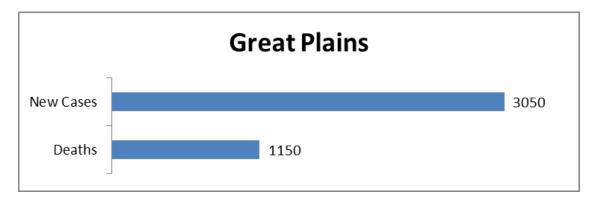


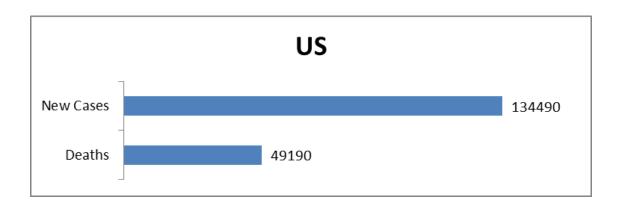
Age-adjusted Colorectal Cancer Death Rates and Joinpoint Trend Lines in CHSDA Counties, 1990-2009, Males





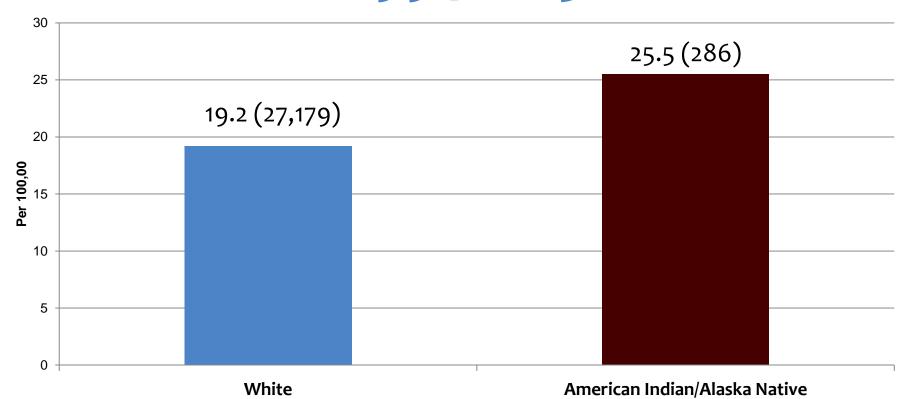
2016 CRC Data All Races U.S.





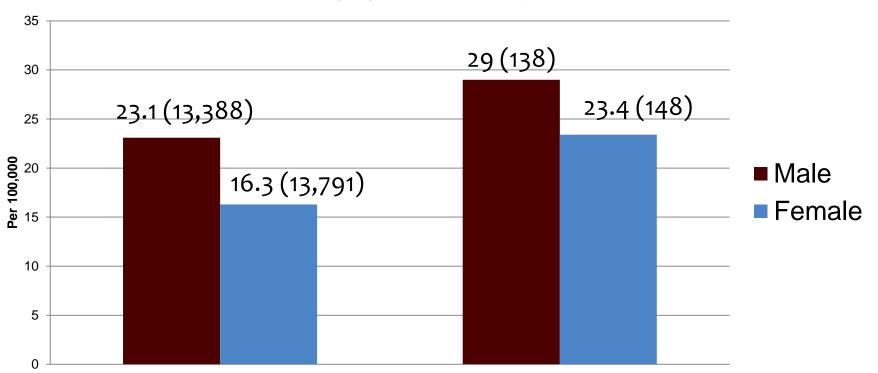


GPA Mortality/Death CRC 1994-2013





GPA Mortality/Death CRC 1994-2013





Who Can Get Colorectal Cancer?





Anyone.

Men and women of all ages and races get CRC.

The good news is that screening can prevent some from getting the disease and dying from it.

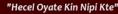


Cancer Risk Factors



- Family History of Colorectal Cancer
- Tobacco
- Diet & Physical Activity
- Sun & UV Exposure
- Radiation Exposure
- Pollution

Photo Source: http://www.hypertensionnetwork.com/en/know--hta/risk-factors-that-increase-the-risk-of-hypertension.html



Signs and Symptoms of Colon Cancer

- Persistent abdominal discomfort
- Unexplained Weight Loss
- Weakness or Fatigue
- There also can be no symptoms

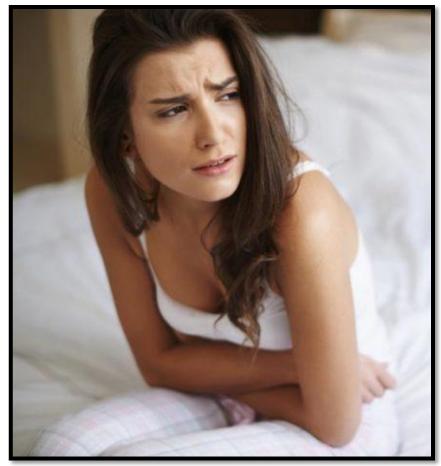


Photo Source: https://www.healthsiren.net/colon-ca-warning-signs/3/

Signs and Symptoms of Colon Cancer



- Rectal Bleeding
- Change in diarrhea or constipation
- A feeling that your bowel doesn't completely empty

You May Reduce Colorectal Cancer

- When you turn 50, get screened
- Avoid smoking
- Limit alcohol intake
- Eat lots of fruits, vegetables and whole grains
- Exercise regularly





Rollin' Colon



Placards



Pre and Post Test



Rollin Colon Pre-Test'

For Internal Use Only	
Event date:	Event locations

s. What is your age! Diunder 40 Give to 45 Give to 75 Give or older	a. What is your gender? ☐ Female ☐ Male ☐ Other
Does colorectal cancer always have symptoms you can feel?** Dives Divo	Does removing a polyp from your colon help to prevent cancer?* Tres No
5. If you have a family member with colorectal cancer, are you at a higher risk of having it too? O yet	At what age should a person have their first screening for colorectal cancer?" 949 99 65
Which test screens for colorectal cancer? Decal Occult blood Test (FDBT) Memmogram D Prostate Specific Antigen (PSA)	8. Have you been screened for colorectal cancer: Tes No No Not sure

Turn to back page



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 Designated Community (Control Statistics)
 Designated Control Control Statistics
 Designated Control Control

Prepared by CPTCHB, GPCCSI, and ACET, Inc.



Rollin Colon Post-Test

	octal cancer always have you can fee!!	Does removing a polyp from your colon help prevent cancer?* The No				
colorectal	colorectal cancer, are you at a higher risk of having it too?*		At what age should a person have their first smeening for colorectal cancer? 40 30 65			
cancer: Difect Divan	5. Which test screens for colonectal cancer: ☐ Fecal Occult blood Test (FDBT) ☐ Mammogram ☐ Prostate Specific Artigen (FIA)		Do you plan to get a colorectal cancer screening in the futures! Yes No No sure			
 Did the notion Colon help you understand the importance of colorectal cancer screening? 						
((i)	\odot	\odot	®			
Yes, a lot	Yes, some	No, not much	Not sure			

Thank your

Prepared by NPCCCP, GPCCSI, and ACET, Inc.

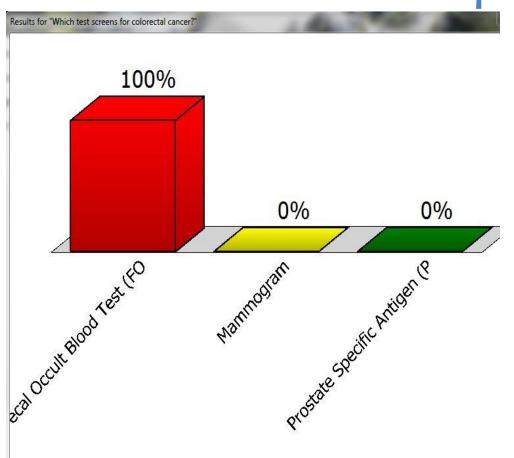
^{*} Statement D. Persons D. Spage, S. Seguene L. Hulland, Garn, influence Calendaria, Communications Communications and Association and Communications Communications (Communications Communications Commun

Audience Response System

- Anonymous
- Improves audience attention
- Increases knowledge

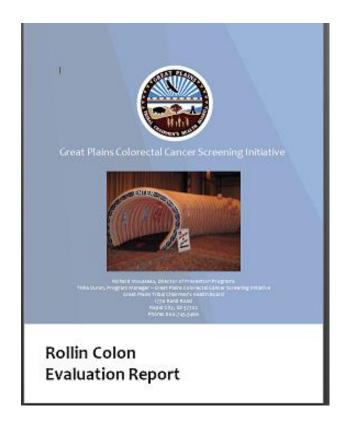


Audience Response System



- Voting system displays data immediately
- Creates fun learning environment
- Gathers data for reports

Evaluation Report





GPCCSI Resources

Sheet

Fact

Cancer

Colorectal

Cancer Health Facts

Awareness. Hope. Believe. Cure. Love. Early Detection. We Can Win This Fight.

What is Colorectal Cancer?

Numbers at a Glance

Leading cause of cancer and leading cause of Cancer

9 out of 10

f found EARLY, 9 out of 10

1 out of 10

If found LATE, 1 out of 10

53%

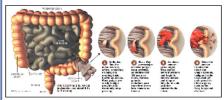
Colorectal cancer is 53% higher in Northern Plains American Indians

49,380

People will die from colorectal cancer this ve



Colon cancer is cancer of the large intestine (colon), the lower part of your digestive system. Rectal cancer is cancer of the last several inches of the colon. Together, they're often referred to as colorectal



Colon cancer—from Polyp to Tumor

Most cases of colon cancer begin as small, noncancerous (benign) clumps of cells called adenomatous polyps. Colorectal cancer occurs when some of the cells that line the colon or the rectum become abnormal and grow out of control. The abnormal growing cells create a tumor, which is the cancer.

Polyps may be small and produce few, if any, symptoms. For this reason, doctors recommend regular screening tests to help prevent colon cancer by identifying polyps before they become colon cancer.

Risk Factors for Colorectal Cancer

Risk factors that may increase your chance of getting colon cancer include:

Older age	Racial and ethnic background	Inflammatory intestinal conditions	Inherited syndromes	Family history	Low-fiber, high-fat diet
Diabetes	Obesity	Smoking	Heavy alcohol use	Radiation therapy	Sedentary lifestyle



FACT SHEET

Colorectal Cancer

What is Colorectal Cancer?

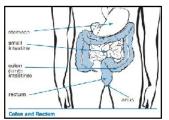


Photo source: Centers Disease and Control

Colorectal cancer is cancer that occurs in the colon or rectum. Sometimes it is called colon cancer. The colon is the large intestine or large bowel. The rectum is the passageway that connects Screening the colon to the anus.

Third Most Common Cancer in the US

In 2015, there were over 90,000 new cases of colorectal cancer in the United States, Colorectal cancer the third leading cause cancer-related deaths in the US, but it doesn't have to be. If everyone aged 50 years or older had regular screening tests, at least 60 percent of deaths from this cancer could be avoided. If you or a loved one is age 50 or older, please consider getting screened for colon cancer.

Who Gets Colorectal Cancer?

Both men and women.

- Most often found in people 50 or older.
- The risk increases with age.

Are You at High Risk?

Your risk for colorectal cancer may be higher than

- You or a close relative have had colorectal polyps or colorectal cancer
- You have inflammatory bowel disease.
- You have a genetic syndrome such as familial adenomatous polyposis (FAP) or hereditary non-polyposis colorectal cancer.

Saves Lives

If you're 50 or older, a colorectal cancer screening could save your life.



Colorectal cancer usually starts from polyps, or unusual growth, in the colon or rectum. Over time, some polyps can turn into cancer.

Colon cancer screenings can find polyps, so they can be removed before they turn into cancer. Screenings also find colorectal cancer early. When it is found early, there is a greater chance of being cured.



To learn more, visit www.gptchb.org or visit us on social media.



ted by Cooperative Agreement #DP15-1502. The contents are solely the responsibility of the authors and do not



Resources

Hecel Oyate Kin Nipi Kte



"So that the People May Live"

FIT Colorectal Cancer Screening Guide

Fecal Immunochemical Tes

The fecal immunochemical test (FIT) is a lab test used to check stool samples to detect blood. Blood in the stool may indicate colon cancer or polyps in the colon or rectum through not all cancers or polyps bleed.

You will collect 1 sample to be examined by the lab for blood. The FIT has no dietary restrictions.

*Must return completed FOBT within 2 weeks.

** Keep in safe place at room temperature—less than
89*F. Keep out of direct sunlight.

Colorectal Cancer Risk Factors:

- Age 50-75
- Family history
- History of breast or Ovarian Cancer
- Inflammatory Bowel Disease
- Colon Polyps

Signs and Symptoms of Colorectal Cancer:

- Rectal bleeding
- Unexplained weight loss
- Weakness or fatigue
- · Change in diarrhea or constipation
- A feeling that your bowel does not completely empty
- Persistent abdominal discomfort

American Indians in the Northern
Plains region are affected by
cancer more than American
Indians in other regions and
compared to whole U.S. population.

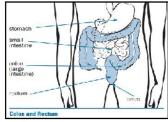


Photo from the Centers Disease and Control Dietary Restrictions

Consult your local laboratory.

Do Not Take the FIT Test if:

- Have diarrhea
- On menstrual cycle

Taking the test while suffering from either of these symptoms may cause a false positive.

What to Expect from the FIT Collection Kit:

You will receive a test kit from your health care provider. At home, you use a stick or brush to obtain a small amount of stool. Return the test to your health care provider or laboratory.

* Fill out collection card with the information requested, including date and time of collection.

Colorectal Cancer is:

Preventable.
Treatable.
Beatable.

Great Plains Colorectal Cancer Screening Initiative

Great Plains Tribal Chairmen's Health Board 1770 Rand Rd | Rapid City, SD 57702 | (P) 605.721.1922 | (F) 605.721.1932 | www.gptchb.org

Hecel Oyate Kin Nipi Kte



"So that the People May Live"

FOBT Colorectal Cancer Screening Guide

Fecal Occult Blood Test

The fecal occult blood test (FOBT) is a lab test used to check stool samples for hidden (occult) blood. Occult blood in the stool may indicate colon cancer or polyps in the colon or rectum—through not all cancers or polyps bleed.

You will collect 3 samples to be examined by lab for blood.

- *Must return completed FOBT within 2 weeks.

 ** Keep in safe place at room temperature—
- less than 89° F. Keep

Colorectal Cancer Risk Factors:

- Age 50-75
- Family history
- · History of breast or ovarian cancer
- Inflammatory bowel disease
- Colon polyps

Signs and Symptoms of Colorectal Cancer:

Rectal bleeding

- Unexplained weight loss
- Weakness or fatigue
- · Change in diarrhea or constipation
- A feeling that your bowel does
- not completely empty

 persistent abdominal discomfort

American Indians in the Northern Plains region are affected by cancer more than American Indians in other regions and compared to whole U.S. population.

stoneoli small intestine colon (fings mestine) rectum anus Celon and Rectum

Photo source: Centers Disease and Control and Prevention

Dietary Restrictions

Consult your local laboratory.

Do Not Take the FOBT Test if:

- Have diarrhea
- On menstrual cycle

Taking the test while suffering from either of these symptoms may cause a false positive.

What to Expect from the FOBT Collection Kit:

You will receive a test kit from your health care provider. At home, you use a stick or brush to obtain a small amount of stool. You will need to collect 3 samples from 3 different days. Return the test to your health care provider or laboratory.

* Fill out all 3 collection cards with the information requested, including date and time of collection.

Colorectal Cancer is:

Preventable. Treatable. Beatable.

Great Plains Colorectal Cancer Screening Initiative

Great Plains Tribal Chairmen's Health Board

1770 Rand Rd | Rapid City, SD 57702 | (P) 605.721.1922 | (F) 605.721.1932 | www.gptchb.org



Show Your Blue CRC Awareness Campaign



March CRC Awareness Campaign-Photo Contest

Trenton Indian Health Service Staff



Center for American Indian and Alaska Native Health – Porcupine, SD



March CRC Awareness Campaign-Mailing Distribution

- Over 40 mailings went out to the Northern Plains area
- Factsheets, brochures, posters, stickers, photo campaign info.

IHS

Tribal Healthcare facilities
Tribal Administration buildings
we continue to distribute

Lessons learned





Media



https://www.youtube.com/watch?v=XqvtOqMBpIg



Media



https://www.youtube.com/watch?v=1w2WTxsTlgQ



Media





17-GPAIHS-0037-Colorectal Cancer Radio Spot-with-Jingles (2).mp3



Carry On The Tradition of Life

Colorectal Cancer is:

Preventable

Treatable

Beatable

Get Screened!



Post Questions

Of the following groups which is less likely to be diagnosed with colorectal cancer? 50%

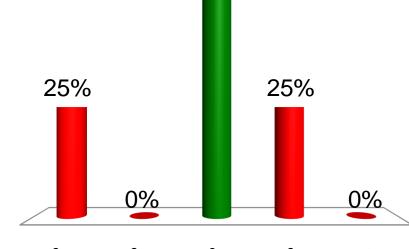
A. Alaska Natives

B. Blacks

C. Whites

D. American Indians

E. Don't Know/Not Sure



Alaska Natives Blacks

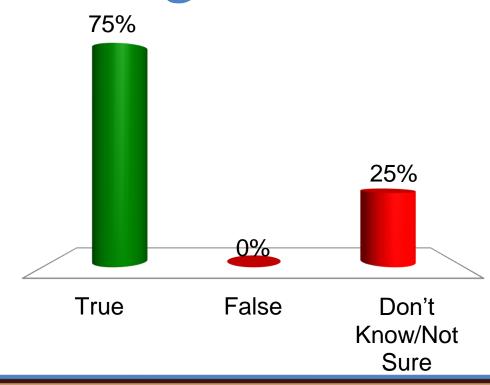
Whites Indians How Hot Sur

People with family history of colorectal cancer should be screened at an earlier age?

A. True

B. False

C.Don't Know/Not Sure



What is the 3rd common cancer among Great Plains American

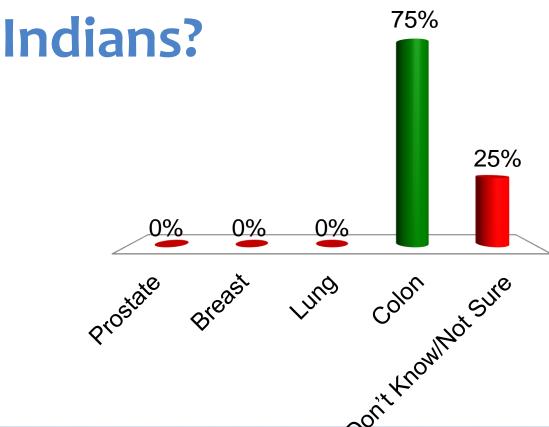
A. Prostate

B. Breast

C. Lung

D. Colon

E. Don't Know/Not Sure

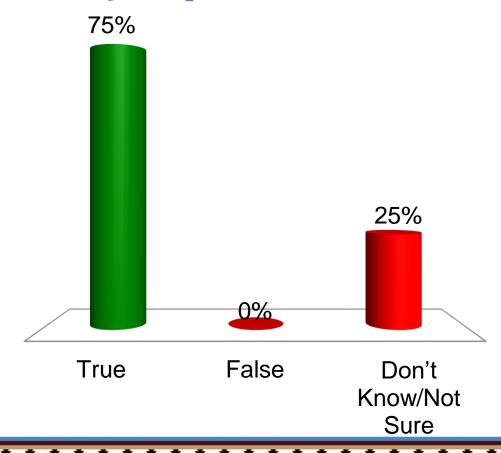


People with colon cancer can experience no symptoms?

A. True

B. False

C.Don't Know/Not Sure





Thank you

GREAT PLAINS TRIBAL CHAIRMEN'S HEALTH BOARD (GPTCHB)

1770 Rand Road

Rapid City, SD 57702

Phone: 605.721.1922
Toll Free: 1.800.745.3466
Fax: 605.721.1932

Email: info@gptchb.org