Colorectal Cancer: Prevention, Treatment & A Path Forward



Welcome

Julie Byerley, MD, MPH

President and Dean, Geisinger College of Health Sciences

Community support



NRCI

Northeast Regional Cancer Institute



Introduction

Samuel Lesko, MD, MPH



Agenda

Testimonials

- Matthew Stopper, MD
- Aimee Kearney
- Gail Smeraldi

Panel Discussion

- Sam Lesko, MD, MPH medical director of the Northeast Regional Cancer Institute
- Michael Kondash, DO family medicine, PrimeMed Medical Group
- Joseph P. Bannon, MD colon & rectal surgery, Geisinger
- Amber L. Sobuto, DO medical oncology & hematology, Hematology & Oncology Associates of NEPA
- Christopher A. Peters, MD radiation oncology, Northeast Radiation Oncology Center

Q&A

Testimonial: Matthew Stopper, MD

Testimonial: Aimee Kearney

Testimonial: Gail Smeraldi

Epidemiology

Samuel Lesko, MD, MPH

What is cancer?

- Group of 100+ diseases
- Uncontrolled growth of abnormal cells
- Invasion of other tissues
- Genetic diseases
 - Control of cell growth and function
 - Inherited
 - Acquired

Colorectal Cancer: United States 2025

Fourth most common cancer

- 154,000 cases per year
- (Rate: 35 / 100,000)

Second leading cause of cancer death

- 53,000 deaths per year
- (Rate: 13 / 100,000)

Colorectal Cancer: NEPA 2017-2021

Fourth most common cancer

- >500 cases per year
- 14% HIGHER than the US rate

Second leading cause of cancer death

- ~200 deaths per year
- 17% HIGHER than the US rate

Risk factors

- Hereditary Syndromes
- Family history
- Age
- Sex, Race
- Inflammatory bowel disease
- Obesity, diabetes
- Diet, tobacco, alcohol
- Radiation to abdomen and pelvis
- Exercise

Signs & symptoms

- None (early)
- Blood in or on stool
- Change in bowel habits
- Abdominal pain
- Weight loss
- Anemia (iron deficiency, blood loss)



Pennsylvania BRFSS: Colorectal Cancer Screening



Michael Kondash, DO

Screening information

Recommendations/Guidelines





Screening options

Non-invasive stool-based tests

- Cologuard
 - Multitarget stool DNA test. The recommended frequency of this test is every 3 years.
- Fecal Immunochemical Test (FIT)
 - Recommended frequency of this test is annually
- High-sensitivity guaiac-based fecal occult blood test (HS-gFOBT)
 - Recommended frequency of this test is annually.

Visual exams

- Colonoscopy
 - every 10 years
- CT Colonography (virtual colonoscopy)
 - every 5 years
- Flexible colonoscopy
 - every 5 years

Barriers to screening

- **Denial**: patients do not believe they belong to the at-risk demographics.
- Cultural: some patients trust in natural remedies or foods.
- **Socioeconomical**: cost of testing, taking time off of work, transportation issues.
- Lack of motivation: patients have other priorities or concerns for may be embarrassed to have testing done.

Who should advise for colorectal screenings?

- Family physicians, internists, gastrointestinal/cologuard specialists, urology, OBGYN, hematology and oncology. All physicians, nurses and practioners involved in patients care.
- Family members, friends, neighbors.
- Health systems practicing population management such as sending FIT test to patient in mail to patient who have not been screened.
- Industry leaders and authorities such as Exact Sciences, TV Ads, Websites, News platforms, Social Media platforms, and local non-profit entities such as NE Regional Cancer Institute.
- Anyone and everybody!

Jay Bannon, MD

Surgical options

Colon anatomy

Blood supply and anatomy determine extent of resection



Colon and rectal cancer



Colon anastomosis







Colon anastomosis

• Avoid need for colostomy



(A) Left hemicolectomy. The inferior mesenteric artery is ligated and the marginal artery is ligated just distal to level of transection of the colon. The hemorrhoidal vessels are ligated within the proximal mesorectum. (B) Colorectal anastomosis with circular stapler. *1*, Anvil in the proximal colon; *2*, Shaft of the transanally placed circular stapler.

Colon and Rectal Cancer Surgery

- Colonoscopy and Polypectomy
- Open surgery
- Laparoscopic and Robotic Surgery
- Emergency operations
- Trans anal excision

Low complication rates

Team approach is the key to success.

Amber Sobuto, DO

Medical oncology

Colon Cancer Staging

۲

.

۰

THE STAGES OF COLON CANCER

IV. Cancer has spread to other parts of the body.

III. Cancer has grown outside the colon and has spread to the lymph nodes.

II. Cancer has grown outside the colon, but has not spread to the lymph nodes.

I. The tumor has spread beyond the inner layer but remains within the colon.

 Cancer cells are found only in the innermost lining of the colon and have not spread.



mskcc.org

Goal of chemotherapy:

- Increase the chance for cure (before or after surgery)
- Rectal cancer is often being treated with "TNT"
- Prolong life, decrease symptoms of disease
- Oral chemotherapy can be an option

5-year survival:

- Stage I: 90-95%
- Stage II: 80-85%
- Stage III: 65-70% (~50% without chemotherapy)
- Stage IV: 10-15%

Colorectal cancer treatment



Chemotherapy options

- FOLFOX every 2 weeks x 3-6 months
 - 5- Fluorouracil (5 FU)
 - Given IV push
 - Given as continuous infusion (46-48 hours)
 - Oxaliplatin
 - Leucovorin
- CAPEOX every 3 weeks x 8 cycles
 - Capecitabine (Twice daily x 14/21d)
 - Oxaliplatin
 - Infusion via PAC every 3 weeks
- Targeted therapies:
 - Proteins on cancer cell surface
 - Medications against blood vessels supplying cancer cells
 - Immunotherapy
 - Biomarker directed therapies





Side effects

- Fatigue
- Lowering the blood counts
- Risk for infection, bleeding, anemia low risk neutropenia
- Nausea/vomiting
- Low risk
- Diarrhea or constipation
- Hair loss (not typical)
- Neuropathy*
- Cold sensitivity
- Peripheral neuropathy
- Skin reactions

Christopher Peters, MD

Radiation therapy

Role of radiation oncologist

- Help stage the patient
- Facilitate multidisciplinary discussion with patient, primary care physician, GI doctor, colorectal surgeon, medical oncologist, others
- Determine if cancer is localized or disseminated
- Colon Cancer vs. Rectal Cancer

Colorectal Cancer



https://staging.fascrs.org/patients/diseases-and-conditions/a-z/rectal-cancer

Copyright 2020 The American Society of Colon and Rectal Surgeons

Rectal Cancer

- Radiotherapy often used BEFORE surgery, along with chemotherapy to reduce the size of the tumor
- RT plays a prominent role in T2 or higher rectal cancer stages
- RT improves survival and reduces the chance of local recurrence vs surgery alone or postop RT
- RT enhances surgical outcomes, facilitates TME
- RT provides symptomatic relief to patients who may have symptoms such as bleeding, pain, or partial obstruction
- Radiation treatment is a focused beam of energy targeted and directed to the cancer. Takes about 5 minutes a day. Like getting an Xray. Pt does not feel anything
- Side effects of treatment depend on where we are focusing the beam

What can I do to reduce my risk?

Risk reduction



Family history

Learn your family history with cancer.

Diet

Eat a healthy diet to improve your gut health.





Exercise

Exercise and maintain a healthy weight.

Avoid tobacco

Tobacco chemicals can increase likelihood of disease.



The #1 thing you can do to prevent colon cancer.





For more information...

To view the resources from tonight's presentation, scan the QR code or visit <u>go.geisinger.edu/crcevent</u>.



Thank you

