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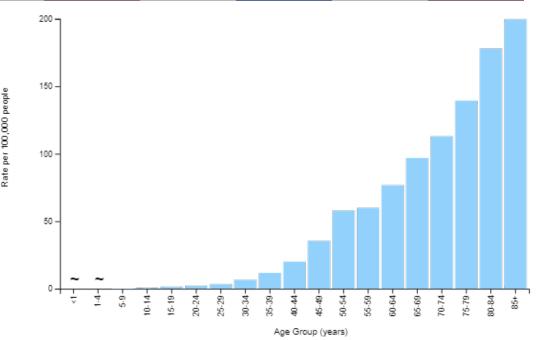


Colon Cancer Screening

National Capital Region

Why do we screen for colon cancer?

- Nearly 125k new cases diagnosed annually in the US in 2020
- In the US:
 - 4th most common cancer
 - 4th leading cause of cancer death
- Up to 60% of colon cancer deaths could be prevented with appropriate screening



~ Data are suppressed for less than 16 cases

Source - U.S. Cancer Statistics Working Group. U.S. Cancer Statistics Data Visualizations Tool,

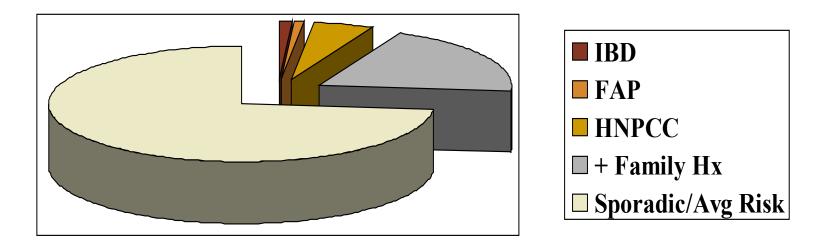
based on 2022 submission data (1999-2020): U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; https://www.cdc.gov/cancer/dataviz, released in November 2023.





Who gets colon cancer?

• Most new diagnoses of colon cancer occur in people with NO FAMILY HISTORY and NO SYMPTOMS

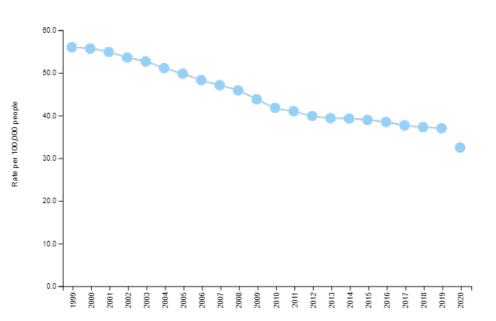






Does screening work?

 Annual Rates of New Cancers, 1999-2000, Unites States, Colon and Rectum, Male and Female, All Races and Ethnicities



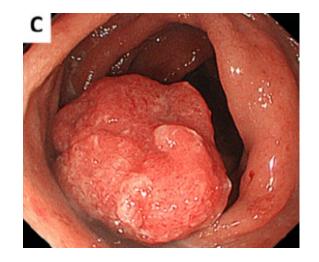
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Colorectal Cancer

- Many patients with colorectal cancer do <u>NOT</u> have symptoms, especially at an early stage
- Signs / symptoms that may be present with colorectal cancer:
 - Bleeding
 - Abdominal pain
 - Change in bowel movements
 - Weight loss
 - Iron deficiency anemia





Improving Health and Building Readiness. Anytime, Anywhere — Always

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Multi-Society Task Force positioning of current colorectal cancer screening tests

Invasive?	Tier 1 (Highest Level of Evidence)	Tier 2
Yes	Colonoscopy - every 10 years if normal - detects precancerous polyps - diagnostic and therapeutic	 Flexible Sigmoidoscopy "mini colonoscopy" only looks at left side of colon not effective in women will miss right sided cancers
No	FIT (Fecal Immunochemical Test) - detects cancer and some advanced polyps - stool based - annual if normal	 FIT-Fecal DNA (Cologuard) detects cancer and some advanced polyps stool based every 3 years if normal CT Colonography every 5 years if normal less sensitive for some types of polyps



Improving Health and Building Readiness. Anytime, Anywhere — Always



6

Multi-Society Task Force positioning of current colorectal cancer screening tests (continued)

Invasive?	Tier 1 (Highest Level of Evidence)	Tier 2
IF THESE ARE POSITIVE YOU NEED A COLONOSCOPY!!!!		 Flexible Sigmoidoscopy "mini colonoscopy" only looks at left side of colon not effective in women will miss right sided cancers
No	FIT (Fecal Immunochemical Test) - detects cancer and some advanced polyps - stool based - annual if normal	 FIT-Fecal DNA (Cologuard) detects cancer and some advanced polyps stool based every 3 years if normal CT Colonography every 5 years if normal less sensitive for some types of polyps





How do we do a colonoscopy?

- Flexible high-definition camera
- Looks at your whole colon
- Allows use of instruments to biopsy or remove polyps or other abnormalities during the procedure

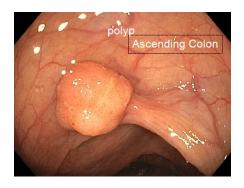


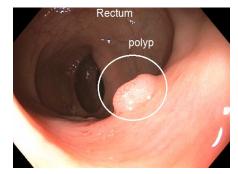




What are we looking for?

- Polyps = abnormal growths in the colon
 - usually benign (noncancerous)
 - can become cancer
- We find these at least 30% of the time
- Up to 25% of adenomatous polyps may turn into cancer
- It takes ~ 10-15 years for polyps to become cancerous

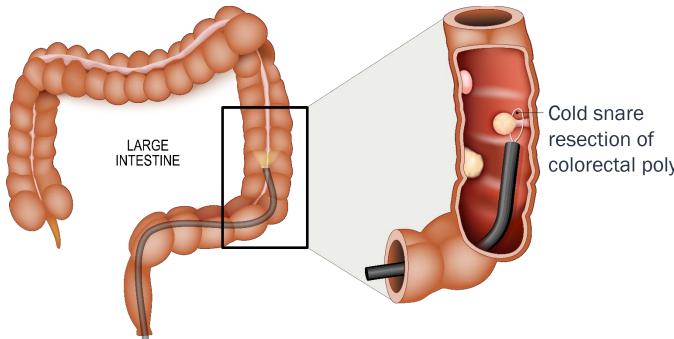


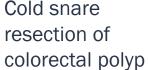






What do we do with the polyps we find?









The Risks of the Procedure

- A colonoscopy is **generally safe**. Rarely, complications of a colonoscopy may include:
 - Adverse reaction to the medications used during the exam
 - <u>Bleeding</u> after polypectomy
 - <u>Perforation</u> (tear in the colon or rectum wall)
 - Abdominal pain
 - Missed polyps or cancer
 - Death
- If you have questions or concerns, please send in a message or ask your provider before your procedure!





Preparing for your procedure





Blood thinners and anti-platelets

- Ask your <u>prescribing physician *IF*</u> you can stop your blood thinners before your colonoscopy
- Do <u>not</u> stop medications without being instructed to do so by a provider
- If you CANNOT stop your blood thinner, contact the GI clinic as soon as possible

Common blood thinners

- Warfarin (Coumadin®)
- □ Apixaban (Eliquis®)
- Rivaroxaban (Xarelto®)
- Dabigatran (Pradaxa®)
- Enoxaparin (Lovenox®)
- Clopidogrel (Plavix®)
- Prasugrel (Effient®)
- □ Ticagrelor (Brilinta®)





- Oral diabetic medications
 - Metformin: Do NOT take the evening before or morning of the procedure
 - SGLT2 Inhibitors: Do NOT take for **3 Days** prior to your procedure
 - Includes: Empagliflozin, Bexagliflozin, Canagliflozin, Dapagliflozin, Ertugliflozin, Sotagliflozin
 - These may be combined with other medications such as metformin or a gliptin





Diabetic Medications (continued)

- Short acting insulin
 - Do not use short acting insulin the night before or the morning of the procedure
- Long acting insulin
 - Take ¹/₂ of your dose the day before the procedure
 - Do not take on the morning of the procedure





Blood Pressure Medications

- Do NOT take any "water pill" or diuretic on the day of your procedure. Examples include:
 - Lasix (Furosemide)
 - Chlorthalidone
 - Hydrochlorothiazide (HCTZ)
 - Maxzide
- <u>Take all other Blood Pressure medicines as scheduled in the</u> <u>morning (only sips of water)</u>







- Please take all other medications as prescribed
- If you have questions about a particular medication that you take, please message the clinic at **Walter Reed Gastroenterology Clinic** in the patient portal







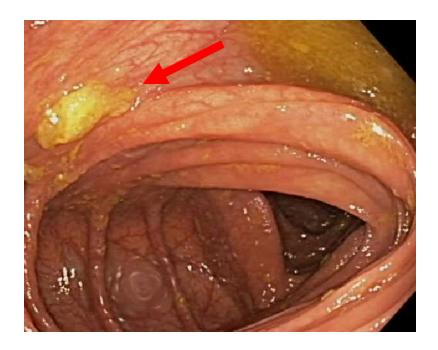






3 to 7 days before your procedure

- Start a low fiber diet which avoids the following:
 - Salads
 - Vegetables
 - Sandwiches
 - Nuts
 - Seeds
 - Popcorn
 - Fruit with seeds
 - High fiber foods
 - Fiber supplements







The day before your procedure

- Start a CLEAR LIQUID diet
 - A clear liquid is one you can read through
- Avoid:
 - Solids
 - Liquids or drinks with pulp/seeds
 - Milk/Cream
 - Red and Purple
- You May Have:
 - Gelatin, clear broth, tea and coffee, fruit juices (without pulp), strained tomato or vegetable juice, sports drinks, Ice Pops (without solid containing substances), honey, sugar, hard candy, carbonated drinks





Colon Prep







Preparing and taking the Prep

- TAKE PREP AS OUR CLINIC INSTRUCTS, NOT BY WHAT IS ON THE BOTTLE!
- What is the difference?
 - Our instructions have you take the prep in 2 doses which leads to much better polyp detection rates





Prep makes all the difference







The Bowel Prep

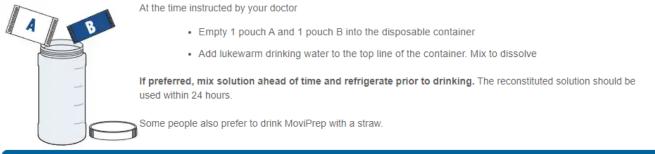




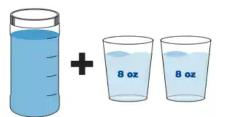


The evening before your procedure

Step 1: Mix the first dose



Step 2: Drink the first dose



- The MoviPrep container is divided by 4 marks. Every 15 minutes, drink the solution
 down to the next mark (approximately 8 oz), until the full liter is consumed
- Drink 16 oz of the clear liquid of your choice. This is a necessary step to ensure
 adequate hydration and an effective prep





The morning of your procedure

Step 3: Mix the second dose



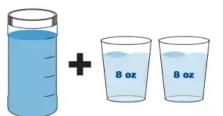
At the time instructed by your doctor

- . Empty 1 pouch A and 1 pouch B into the disposable container
- · Add lukewarm drinking water to the top line of the container. Mix to dissolve

If preferred, mix solution ahead of time and refrigerate prior to drinking. The reconstituted solution should be used within 24 hours.

Some people also prefer to drink MoviPrep with a straw.

Step 4: Drink the second dose



- The MoviPrep container is divided by 4 marks. Every 15 minutes, drink the solution down to the next mark (approximately 8 oz), until the full liter is consumed
- Drink 16 oz of the clear liquid of your choice. This is a necessary step to ensure adequate hydration and an effective prep





Preparing and taking the prep (continued)

- Most folks prefer their prep cold
- Drinking through a straw may by more palatable
- SUGAR-FREE flavor mix can be added
 - Avoid red or purple
- Drink your prep quickly But not so fast you get sick!
- Please remain within easy reach of toilet facilities





- Absolutely nothing by mouth 3 hours before your procedure.
 - EXCEPT: TAKE MEDICATIONS WITH A FEW SIPS OF WATER







Sedation and Scheduling





Section goals

- Review
 - Sedation medications
 - Sedations risks
 - Need for an escort
 - Scheduling procedures
 - How to pick up meds
 - Where to find us







Arriving in clinic

- You will (likely) receive a sedative for this exam
 - Sedation is not required for the procedure, but most people opt to be sedated
- You must have a responsible adult to escort you home and check on you frequently afterwards. Escorts must be there at CHECK-IN!!
 - Escorts need not stay in our waiting room, but we ask that they not leave the installation
- Dress comfortably! Bring a book
- We ask that you leave valuables at home
 - We will ask you leave any valuables with your escort







- **DO NOT** drive, return to work, or operate any machinery or power tools for the rest of the day
- **DO NOT** drink alcohol or take any nerve or sleeping drugs for at least 24 hours
- DO NOT
 - make any important personal or business decisions
 - sign any legal papers
 - perform any activity that depends on your full concentrating power or mental judgment for the rest of the day





Conscious Sedation

- Uses Fentanyl and Midazolam to create a dream-like state
 - Fentanyl minimizes pain
 - Midazolam provides sedation
- Medications are given through an IV
- Adequate sedation is typically achieved within 5 min
- You will continue to breathe on your own
- Sedation is not required to undergo colonoscopy safely and is optional





Limitations of Conscious Sedation

- Some medications make people resistant to the sedating effects of fentanyl and midazolam
- Opiates such as:
 - Oxycodone (Oxy IR/ER, Percocet)
 - Hydrocodone (Norco, Vicodin)
 - Hydromorphone (Dilaudid)
 - Methadone, Buprenorphine
- Benzodiazepines such as:
 - Lorazepam (Ativan)
 - Clonazepam (Klonopin)

- Sleep medications
 - If you need more than 1
 - Ambien
 - Lunesta
 - Benadryl
 - Trazodone
- Alcohol
 - If you drink more than 2 drinks in a typical day



Risks of sedation

- Drops in blood pressure
- Drops in heart rate
- Drops in respiratory rate
- Breathing in respiratory or gastric secretions





You will be carefully monitored throughout the procedure and, if at any point, we do not think that we can continue safely, WE WILL STOP







- If you think you may be pregnant, please let the nurse know before the start of the procedure
- A pregnancy test is available for all female patients who think they may be pregnant, but is not required





Scheduling Tips

- Only the first procedure of the morning or afternoon has a predictable start time
 - We cannot predict what we will find during procedures
 - Plan to spend a half day at the clinic
- It may be a few weeks before our schedule opens up
- If you need to change your procedure time, please give us as much notice as possible





Colonoscopies Save Lives





