

Colorectal Cancer: What Patients Need to Know

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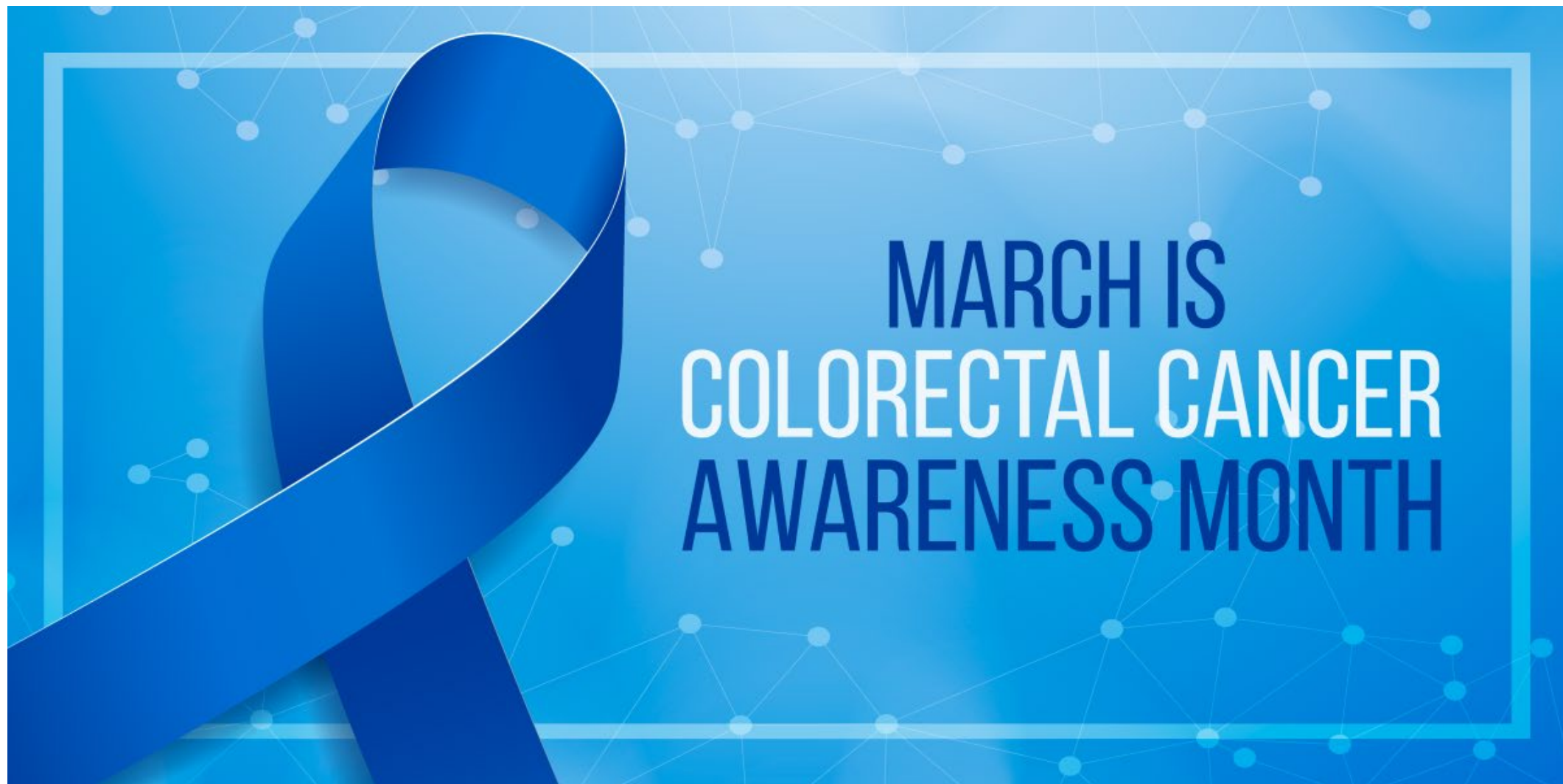
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Johns Hopkins Sidney Kimmel Comprehensive Cancer Center





Critical
Conversations



ONCOLOGY
FOUNDATION

OF MARYLAND AND THE
DISTRICT OF COLUMBIA

Critical Discussion in Colorectal Cancer

1. Statistics
2. Risk Factors and Prevention
3. What Colorectal Cancer?
4. Colorectal Cancer Screening
5. Symptoms and Signs
6. Diagnosis
7. Genetics
8. Colorectal Cancer Stages
9. Treatments-
 - Surgery
 - Chemotherapy
 - Targeted Therapy
 - Immunotherapy
10. Personal Story and Survivorship

Colorectal Cancer Basics

1. Colorectal cancer is a growth of cells that forms in the lower end of the digestive tract.
 - Removing polyps can prevent cancer, screenings for those at high risk or over the age of 45.
2. Symptoms might include blood in the stool, abdominal discomfort, change in bowel habits.
3. Colorectal cancer treatment depends on the size, location, genetic analysis and stage of cancer.
4. Treatments may include surgery, chemotherapy, immunotherapy, targeted therapy and radiation therapy.
5. Genetics and Immunology are playing an increasing role.

COLORECTAL CANCER

SIGNS & SYMPTOMS

(many people experience no symptoms)

- Change in bowel habits, including diarrhoea/constipation
- Rectal bleeding or blood in stools
- Persistent abdominal discomfort (cramps, gas or pain)
- A feeling that the bowel doesn't empty completely
- Weakness or fatigue
- Unexplained weight loss

EARLY DETECTION IS KEY

The risk for **30%** of cancers can be reduced by changing your diet and lifestyle

- Go for regular colon screening tests such as a colonoscopy as from age 50 - every 10 years
- Some CANSA Care Centres & Mobile Health Clinics countrywide offer faecal occult blood tests (sample of stool collected on end of an applicator to help detect small quantities of blood). Although not always an indication of cancer, positive results require a referral to a doctor



RISK FOR COLON CANCER INCREASES WITH AGE (50+)



Male lifetime risk
1:114

Most colorectal cancers begin as a **POLYP**, a small growth of tissue that starts in the lining & grows into the centre of the colon or rectum. Doctors can remove polyps during the colonoscopy procedure



POLYP



Female lifetime risk
1:182

Lifestyle factors that contribute to increase the risk of colorectal cancer:



Lack of regular exercise

Low fruit/vegetable intake



Low-fibre & high-fat diet



Being overweight (obesity)



Alcohol consumption



Insufficient intake of clean safe water

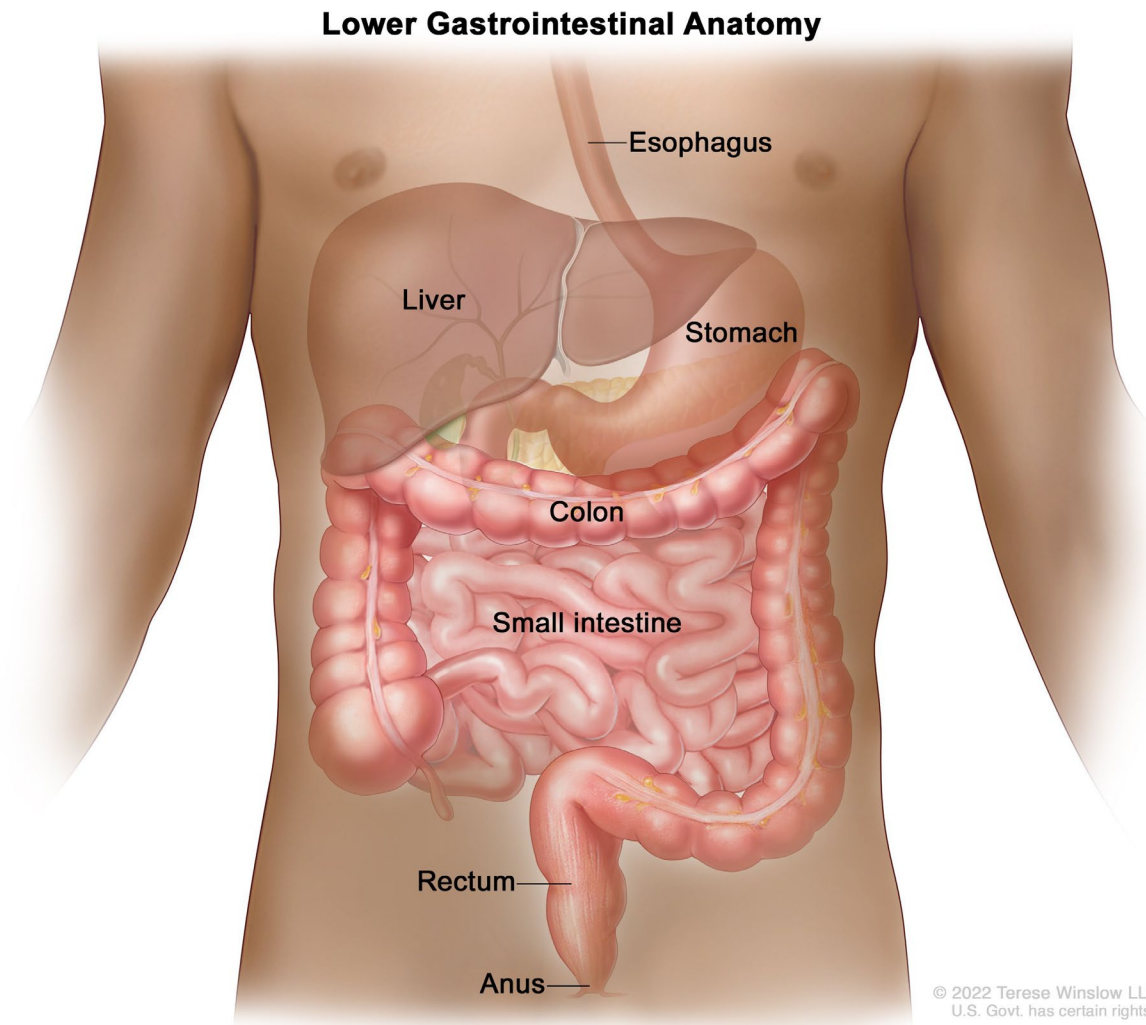


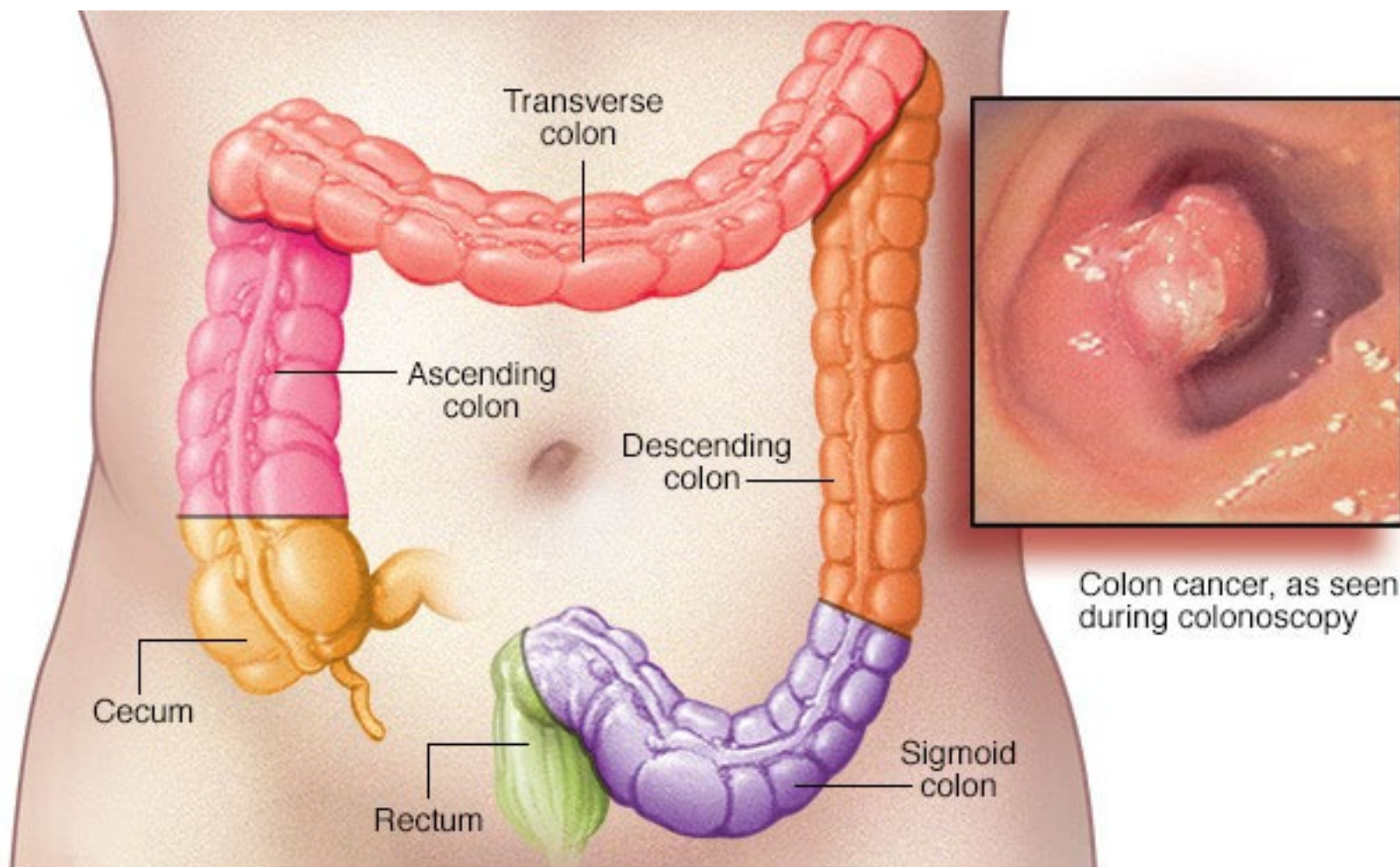
Tobacco use

Other risk factors:

- Inflammatory bowel disease
- Personal or family history of:
 - Colorectal polyps
 - Colorectal cancer

Colon cancer is a disease in which malignant (cancer) cells form in the tissues of the colon





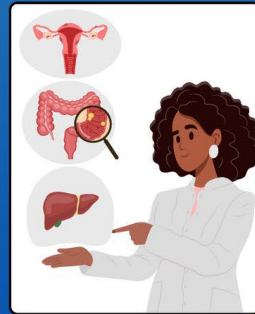
Colon cancer, as seen during colonoscopy

Cancer Statistics 2024

In 2024 there will be a milestone

2 million (2,001,140) new cancers diagnosed in the United States


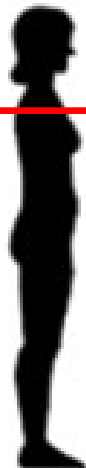
Cancer mortality has declined continuously from 1991, when the rate peaked, through 2021, **averting 4.1 million deaths** due largely to reductions in smoking, improvements in treatment, and early detection for some cancers.





However, this progress is jeopardized by increasing incidence for many common cancers, including:

breast, prostate, pancreas, uterine corpus, melanoma, liver (female), **kidney, HPV-associated oral cancers, colorectal** (0-54 years), **and cervical** (ages 30-44 years)

Colorectal cancer has moved up from the 4th leading cause of cancer death **in people younger than 50 in the late 1990s to first in men and second in women (after breast).**

Estimated New Cases	Male			 	Female		
	Prostate	299,010	29%		Breast	310,720	32%
	Lung & bronchus	116,310	11%		Lung & bronchus	118,270	12%
	Colon & rectum	81,540	8%		Colon & rectum	71,270	7%
	Urinary bladder	63,070	6%		Uterine corpus	67,880	7%
	Melanoma of the skin	59,170	6%		Melanoma of the skin	41,470	4%
	Kidney & renal pelvis	52,380	5%		Non-Hodgkin lymphoma	36,030	4%
	Non-Hodgkin lymphoma	44,590	4%		Pancreas	31,910	3%
	Oral cavity & pharynx	41,510	4%		Thyroid	31,520	3%
	Leukemia	36,450	4%		Kidney & renal pelvis	29,230	3%
	Pancreas	34,530	3%		Leukemia	26,320	3%
	All sites	1,029,080			All sites	972,060	

Estimated Deaths	Male			 	Female		
	Lung & bronchus	65,790	20%		Lung & bronchus	59,280	21%
	Prostate	35,250	11%		Breast	42,250	15%
	Colon & rectum	28,700	9%		Pancreas	24,480	8%
	Pancreas	27,270	8%		Colon & rectum	24,310	8%
	Liver & intrahepatic bile duct	19,120	6%		Uterine corpus	13,250	5%
	Leukemia	13,640	4%		Ovary	12,740	4%
	Esophagus	12,880	4%		Liver & intrahepatic bile duct	10,720	4%
	Urinary bladder	12,290	4%		Leukemia	10,030	3%
	Non-Hodgkin lymphoma	11,780	4%		Non-Hodgkin lymphoma	8,360	3%
	Brain & other nervous system	10,690	3%		Brain & other nervous system	8,070	3%
	All sites	322,800			All sites	288,920	

Estimates are rounded to the nearest 10, and cases exclude basal cell and squamous cell skin cancers and in situ carcinoma except urinary bladder. Estimates do not include Puerto Rico or other US territories. Ranking is based on modeled projections and may differ from the most recent observed data.

Are you at risk for Colorectal Cancer?



Being Older

Your risk goes up as you age



Personal + Family History

Having a parent, sibling, or child with colorectal cancer increases your risk



Race

African American men and women are at higher risk



Inflammatory Bowel Disease (IBD)

IBD, including ulcerative colitis and Crohn's disease put you at higher risk



Not Being Physically Active



Diets high in Red Meats and Processed Meats



Being Overweight or Obese



Alcohol Use

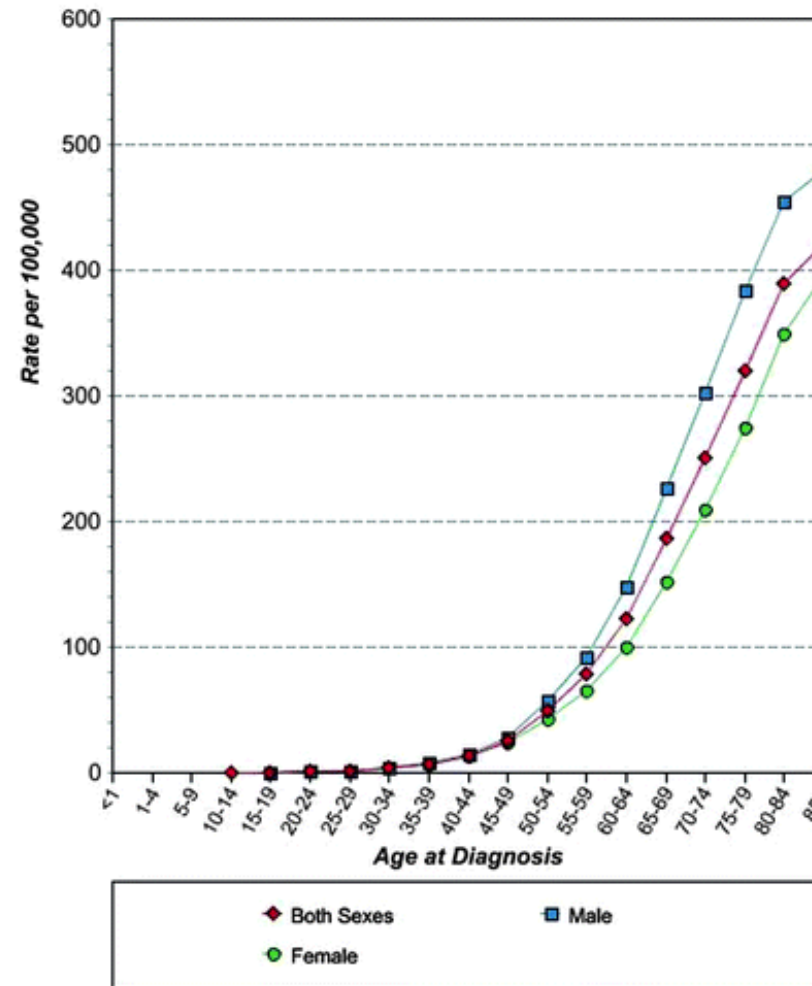


Smoking



HALIFAX HEALTH
CENTER FOR ONCOLOGY

Colon Cancer Incidence Rates in US by Age



Rising Colon Cancer Rates in Young Adults

BORN IN 1950



BORN IN 1990



Source: "Colorectal Cancer Incidence Patterns in the United States, 1974-2013,"
February 28, 2017, Journal of the National Cancer Institute.

www.ccalliance.org



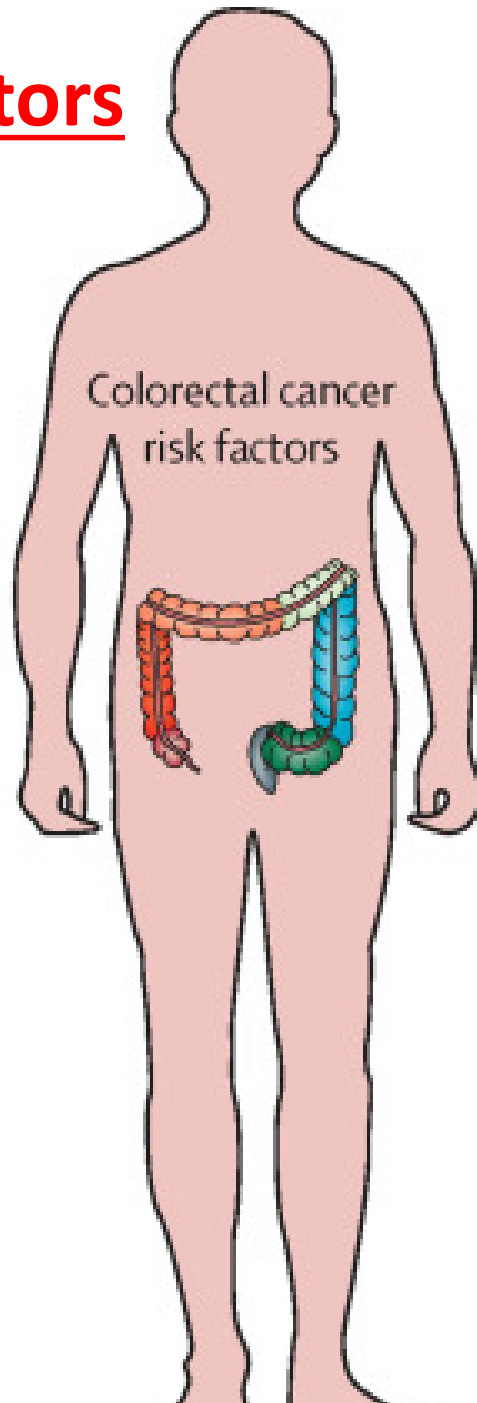
Colorectal Cancer Risk Factors

Hereditary factors

- Hereditary colorectal cancer syndromes
- Positive family history

Other factors

- Aspirin or NSAID use
- Menopausal hormone therapy
- Statin use
- Ethnicity
- Male gender
- Type 2 diabetes
- Inflammatory bowel disease



Modifiable risk factors ↑ risk

- Smoking
- Processed meat
- Alcohol intake
- Red meat
- Low intake of vegetables and fruits
- Body fat and obesity

Modifiable risk factors ↓ risk

- Physical activity
- Whole grains
- Dietary fibre
- Dairy products
- Fish intake
- Tree nuts
- Vitamins (D, C, and others)
- Calcium supplements

Types of Genetic Tests for Cancer

Germline:

Normal cells are tested for genetic mutations that may be inherited and increase your risk of cancer

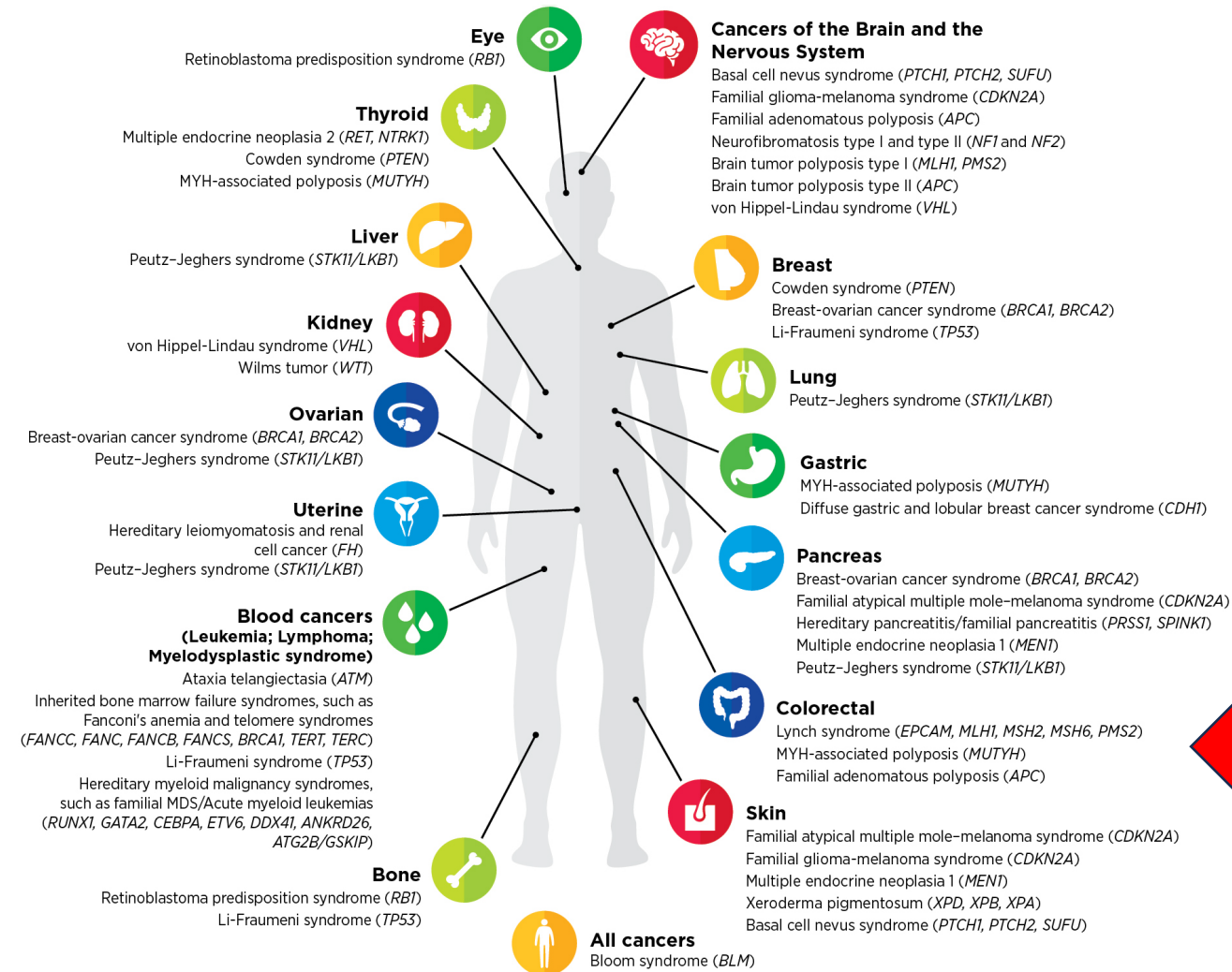
Somatic tumor:

Cells from a known cancer are tested for mutations that could impact your prognosis or determine treatment



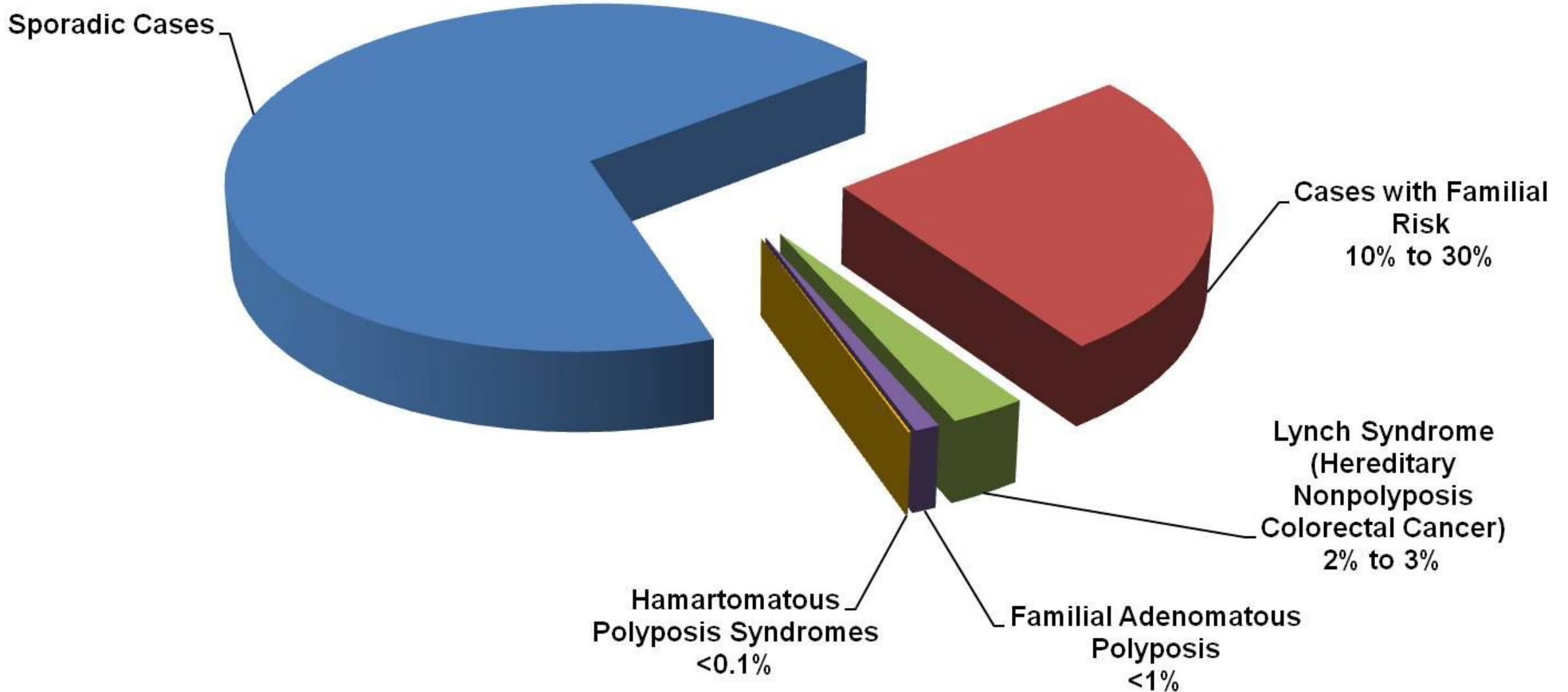
FIGURE 5

Inherited Cancer Risk

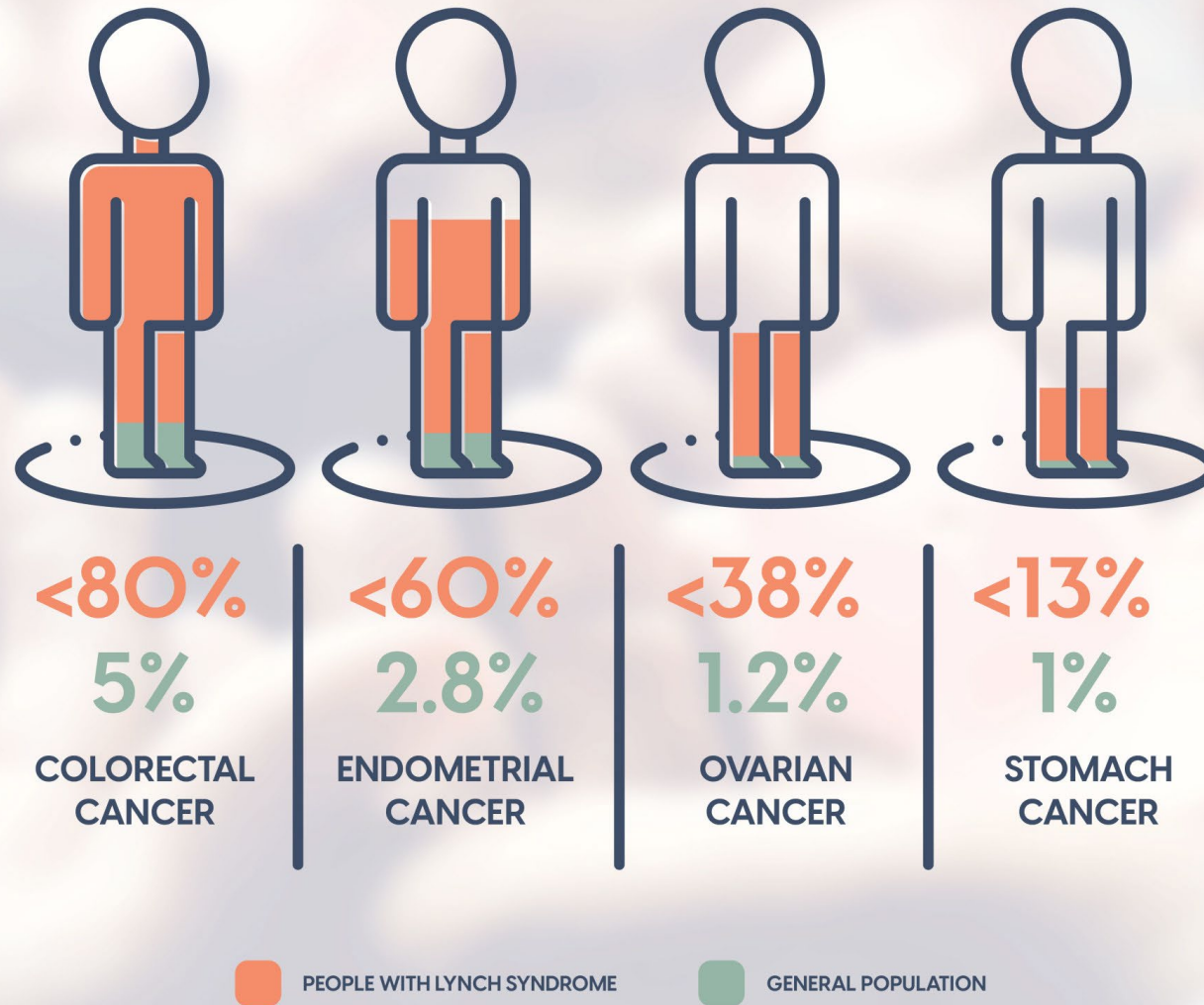


Depicted here are selected cancer types that are associated with inherited cancer syndromes. Also shown in parentheses are the genes, mutations in which are linked with various inherited cancer syndromes that predispose individuals to the shown cancer types.

Colon Cancer Cases Arising in Various Family Risk Settings



Lifetime Cancer Risk Comparison



Lynch syndrome versus FAP

NAME	Lynch syndrome	Familial adenomatous polyposis (FAP)
% OF ALL CRCs	3% to 10%	1%
PATHOGENESIS	Microsatellite instability	Chromosomal instability
INHERITANCE & PENETRANCE	Autosomal dominant 80% penetrance	Autosomal dominant Close to 100% penetrance
AGE OF ONSET	Mean at age 44 15% develop cancer by 40	Symptoms at age 16 (8 – 34) 90% develop cancer by 45
POLYPS	Not seen, few	Many
TYPICAL TUMOR CHARACTERISTICS	Rapid conversion of polyp to cancer; right-sided , large, non-fibrous tumors	Slower-converting polyps which degenerate to fibrous and bowel constricting tumors

Sources: Dr. David A. Owen, Department of Pathology, VGH, UBC. Buchanan *et al.* **Lessons from Lynch syndrome: a tumor biology-based approach to familial colorectal cancer.** *Future Oncology* 6(4):539-549. Bonis *et al.* **Lynch syndrome (hereditary nonpolyposis colorectal cancer): Screening and management of patients and families.** UpToDate (November 28th, 2011 revision). Ahnen *et al.* **Clinical features and diagnosis of familial adenomatous polyposis.** UpToDate (August 28th, 2010 revision). OncoLink.org.

WHO SHOULD CONSIDER TESTING FOR LYNCH SYNDROME

(Consult your Physician)

FAMILY HISTORY

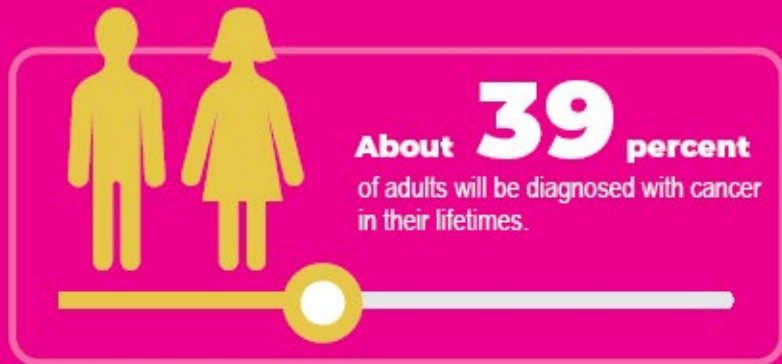
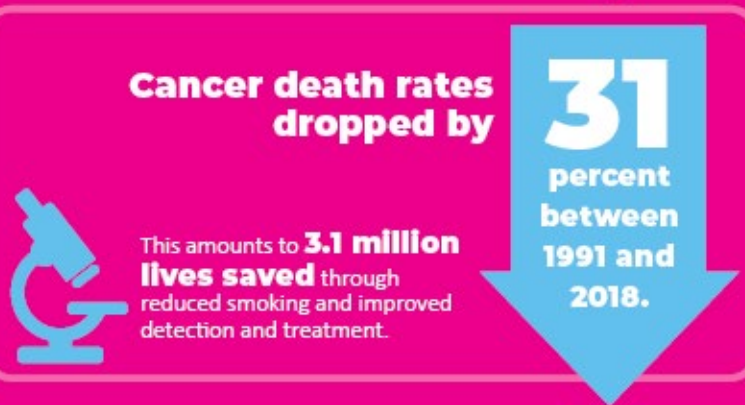
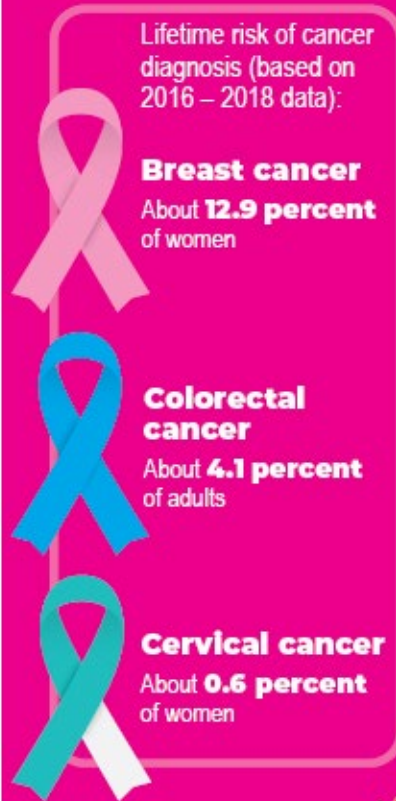
- If you have a family member that has been diagnosed with Lynch Syndrome
- If at least 3 relatives had cancer linked to Lynch Syndrome
- If at least 1 first degree relative and 2 successive generations are affected
- If at least 1 relative was diagnosed before the age of 50

PERSONAL HISTORY

- If you have had more than 1 cancer linked to Lynch Syndrome at any age
- If you had colorectal or endometrial cancer before age 50
- If you have had a cancer linked to Lynch Syndrome and 1 or more relatives also had a cancer linked to Lynch Syndrome
- If at least 1 relative was diagnosed with a Lynch Syndrome related cancer before the age of 50

SCREENINGS


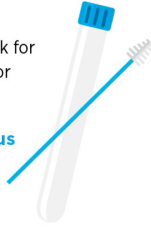



Make a Difference



USPSTF-recommended Tests to Screen for Cancer

The U.S. Preventive Services Task Force (USPSTF) is an independent Congressionally mandated panel of experts in preventive care convened by the Agency for Healthcare Research and Quality. USPSTF rigorously reviews the evidence on the benefits and harms of behavioral counseling, preventive medications, and screening strategies related to cancer.

Described below are screening tests that are included as part of evidence-based recommendations by USPSTF to screen for four cancer types in individuals who are at an average risk of being diagnosed with cancer, and to screen for lung cancer in individuals who are at a higher-than-average risk of being diagnosed with cancer.

<p>BREAST CANCER</p> <p>Digital mammography Uses X-rays to generate two dimensional images of the breast that can be stored electronically and analyzed for signs of breast cancer.</p> <p>Digital breast tomosynthesis Also called three-dimensional mammography, this screening method generates 3D images of the breast that are analyzed for signs of breast cancer. Must be accompanied by digital mammography.</p> 	<p>CERVICAL CANCER</p> <p>Cytology Samples cervical cells, which are analyzed under a microscope to look for abnormalities. Also called Pap test or Pap smear.</p> <p>High-risk Human Papillomavirus (HPV) test Detects the presence of certain cervical cancer-causing types of HPV and identifies people for whom further testing is recommended. Does not directly detect precancerous or cancerous cervical lesions.</p> 
<p>COLORECTAL CANCER</p> <p>Stool-based tests Some test for the presence of a product of red blood cells. Others test for both the presence of a product of red blood cell and certain genetic mutations linked to colorectal cancer. Do not directly detect precancerous lesions or cancers but identify people for whom further testing is recommended.</p> <p>Direct visualization tests Flexible sigmoidoscopy and colonoscopy Use a thin, flexible, lighted tube with a small video camera on the end to examine the lining of the entire colon and rectum (as is the case with colonoscopy), or only certain parts (as is the case with flexible sigmoidoscopy).</p> <p>Computed tomography (CT) colonography (virtual colonoscopy) Uses X-rays to image the colon and rectum.</p> 	
<p>LUNG CANCER</p> <p>Low-dose spiral CT scan Uses low doses of X-rays to rapidly image the lungs and detect any structural abnormalities suggestive of lung cancer. Suspicious lesions are then biopsied to examine for the presence of abnormal or cancer cells.</p> 	<p>PROSTATE CANCER</p> <p>PSA test Measures the level of a protein called prostate-specific antigen (PSA) in blood, which is often elevated in men with prostate cancer. Does not directly detect prostate cancer but identifies men for whom further testing is recommended.</p> 

Learn About Your SCREENING OPTIONS *for* COLORECTAL CANCER

What

COLORECTAL CANCER
IS THE **THIRD MOST**
COMMON CANCER

yet it is one of the **most preventable**. It is **highly treatable** and is often **curable** when caught early.

Who

AGE 45 to 75

Adults at **average risk** for Colorectal Cancer should **get screened**

AGE 75+

The decision to continue **screening should be personalized** in adults over age 75

When

10 VS. 1

In general, **colonoscopy every 10 years** starting at age 45 for average risk adults is recommended as a screening test as compared to the alternate **stool FIT test** which you have to undergo **every 1 year**.

Why

POLYPS

Removing polyps with Colonoscopy **reduces** the **risk of Colorectal Cancer** and **saves lives**.

1-Step Test

COLONOSCOPY

Your doctor can see and remove pre-cancers called polyps and prevent or detect or confirm colorectal cancer **ALL IN 1 STEP**.

2-Step Test

1ST STEP

Stool-Based Test
FIT Test (Fecal Immunochemical Test)
Multitarget Stool DNA

OR

Flexible Sigmoidoscopy

OR

Imaging Test
CT Colonography
Colon Capsule

How

1-STEP TEST

Colonoscopy is a one-step test that looks for growths called polyps in your entire colon (large intestine) and rectum. Your doctor can remove polyps and prevent colorectal cancer.

2-STEP TESTS

If they are positive, tests such as Fecal Immunochemical Tests (FIT) or Multitarget Stool DNA tests need a follow-up colonoscopy to diagnose any problems. Two steps are needed to screen.

POSITIVE TEST?

2ND STEP
Colonoscopy



Learn About Your Screening Options for Colorectal Cancer: gi.org/coloncancer



Find a gastroenterologist near you:
gi.org/find-a-gastroenterologist



American College of Gastroenterology | gi.org
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45 IS THE
NEW **50!**

**YOU CAN PREVENT
COLORECTAL CANCER**

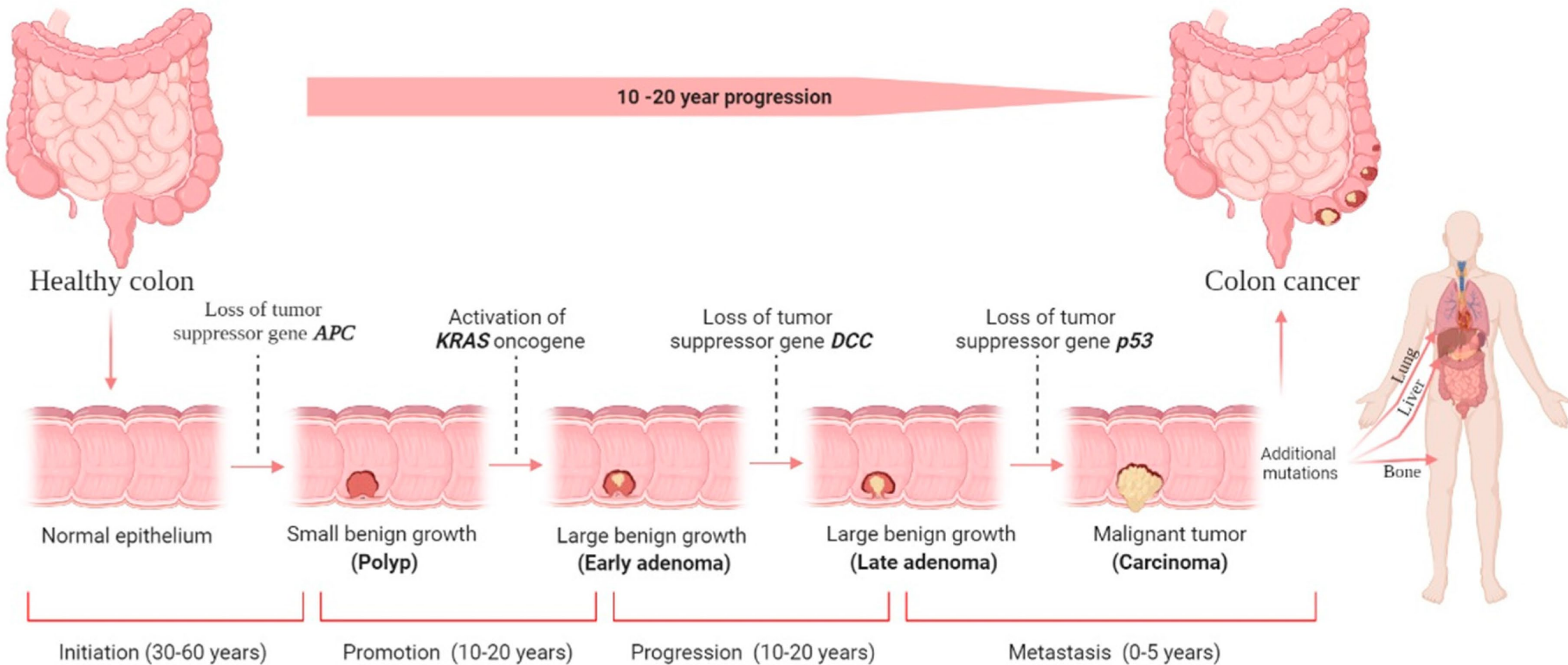
NEW SCREENING RECOMMENDATIONS FROM
THE AMERICAN COLLEGE OF GASTROENTEROLOGY

Digestive Disease Specialists

Committed to Quality

in Patient Care

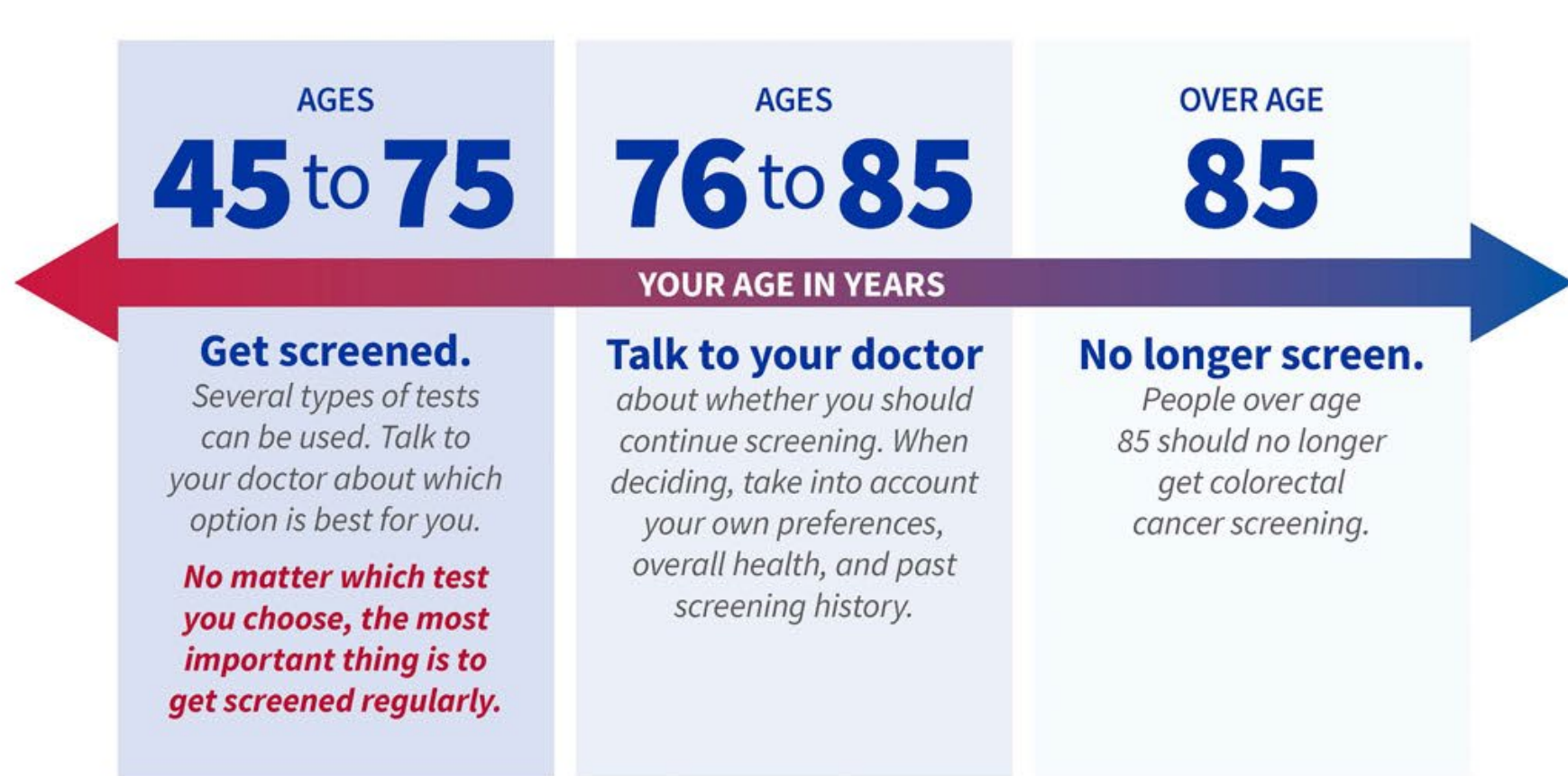




COLORECTAL CANCER

SCREENING GUIDELINES

for people at average risk



TESTING OPTIONS

- Visual exams such as colonoscopy or CT colonography look at the inside of the colon and rectum for polyps (growths) or cancer.
- Stool-based tests look for signs of cancer in stool and can be done at home. These tests include the fecal immunochemical test (FIT), fecal occult blood test (FOBT), and multi-target stool DNA test.
- All abnormal results on non-colonoscopy screening tests should be followed up with a timely colonoscopy.
- People with a family history of polyps or colorectal cancer, or who have other risk factors, might need to start screening before age 45, be screened more often, and/or get specific tests.



CANCER SCREENING SAVES LIVES. GET SCREENED.

Talk to your doctor about screening, and contact your insurance provider about insurance coverage for screening.

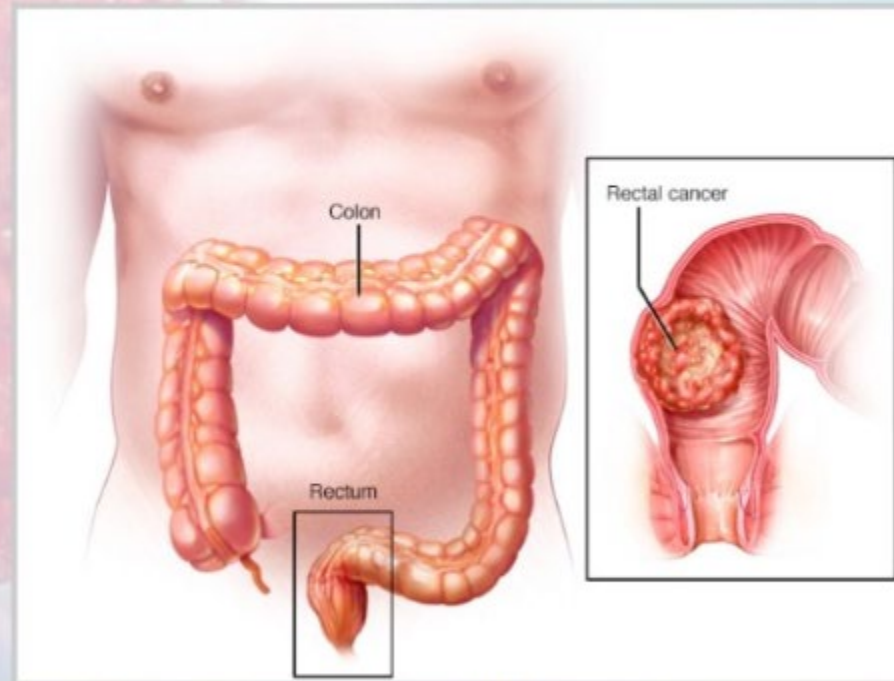
To learn more, visit cancer.org/get-screened or call 1-800-227-2345.

COLON CANCER

Colorectal cancer is a growth of cells that forms in the lower end of the digestive tract. Most of these cancers start as non-cancerous growths called polyps. Removing polyps can prevent cancer, so health care providers recommend screenings for those at high risk or over the age of 45.

Early Stage Symptoms

-  Changes in bowel habits
-  Bloody Stools
-  Pain or cramping in the abdomen
-  Unintended weight loss
-  Cancer spreading to lymph nodes
-  Bowel obstructions
-  Cancer spreading to liver and other organs



An anatomical illustration of the human digestive system, specifically the large intestine (colon). A large, irregular, reddish-brown tumor is shown on the left side of the colon. A white line points from this tumor to a text box at the bottom. The background is dark, and the text is in white and red.

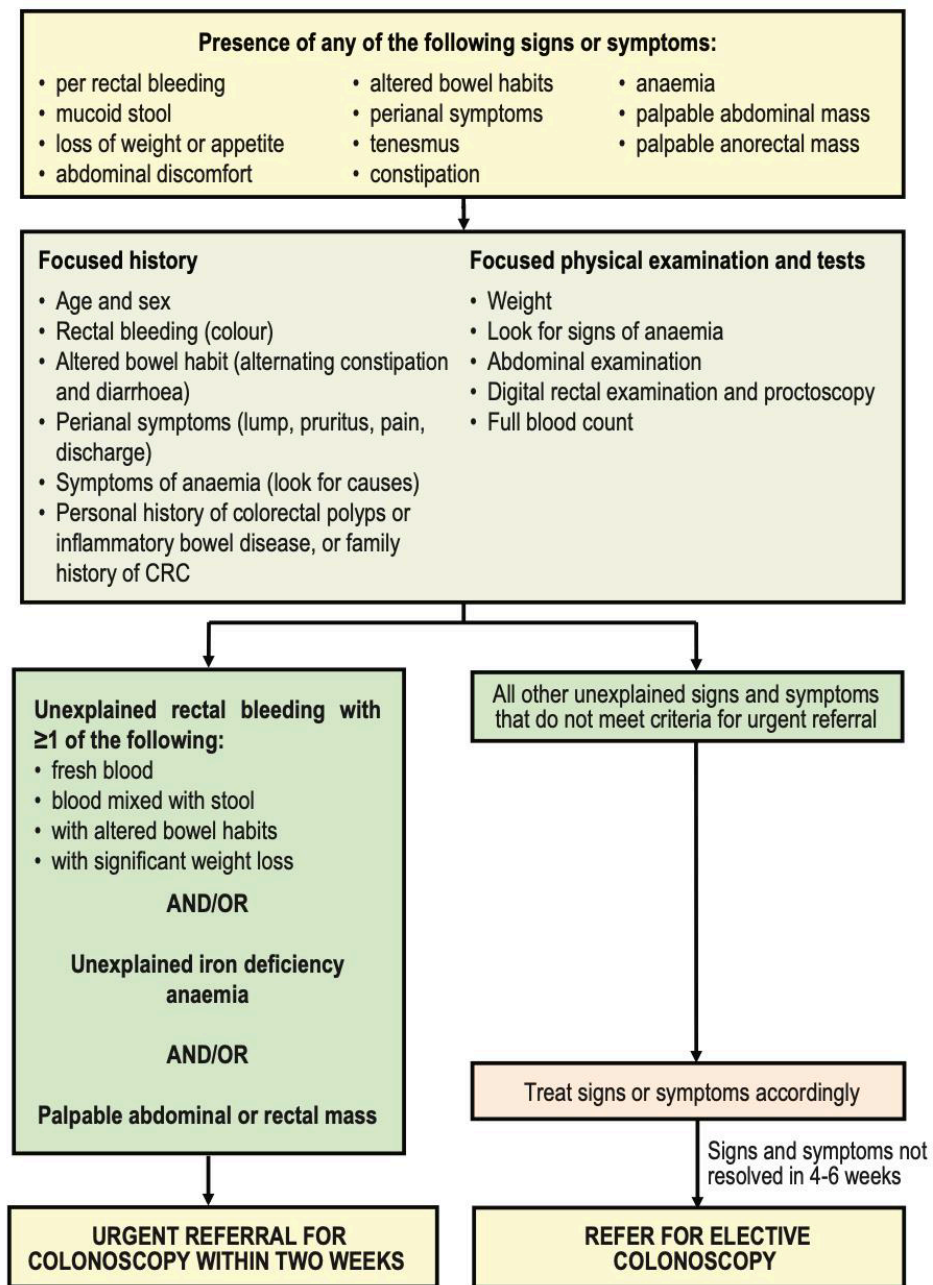
Signs & Symptoms

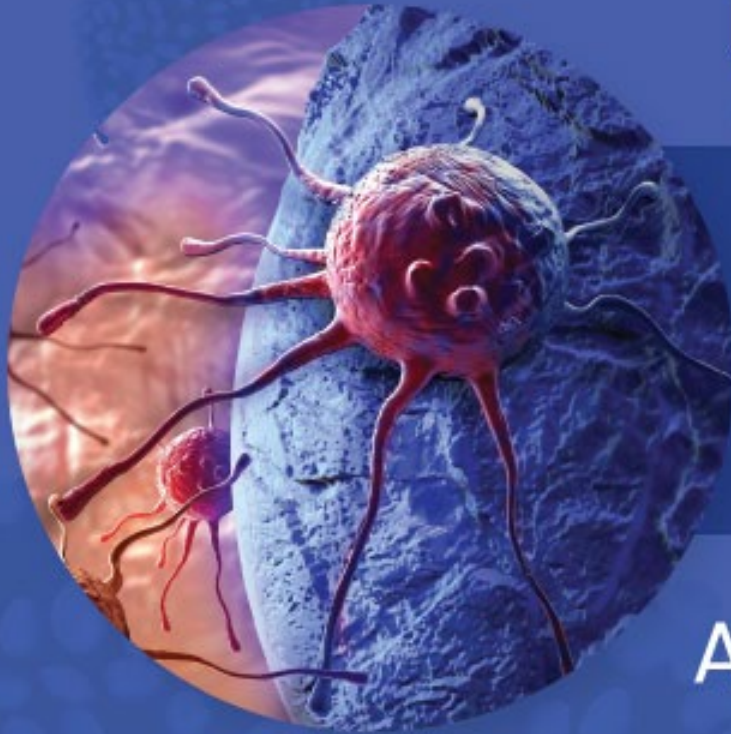
Symptoms of colorectal cancer may appear only in the advanced stages of the disease:

- Change in bowel habits
- Continual feeling of need for a bowel movement
- Bleeding from the rectum or bloody stools
- Abdominal cramping or pain
- Frequent gas or indigestion
- Weakness or fatigue
- Unexplained weight loss

THE BLOOD VESSELS THAT FEED A TUMOR TEND TO BE MORE FRAGILE THAN NORMAL BLOOD VESSELS AND BLEED EASILY. THIS LEADS TO INTERNAL BLEEDING IN THE COLON, ONE OF THE SYMPTOMS OF COLORECTAL CANCER.

ALGORITHM B: PRIMARY CARE REFERRAL FOR SYMPTOMS OF COLORECTAL CARCINOMA

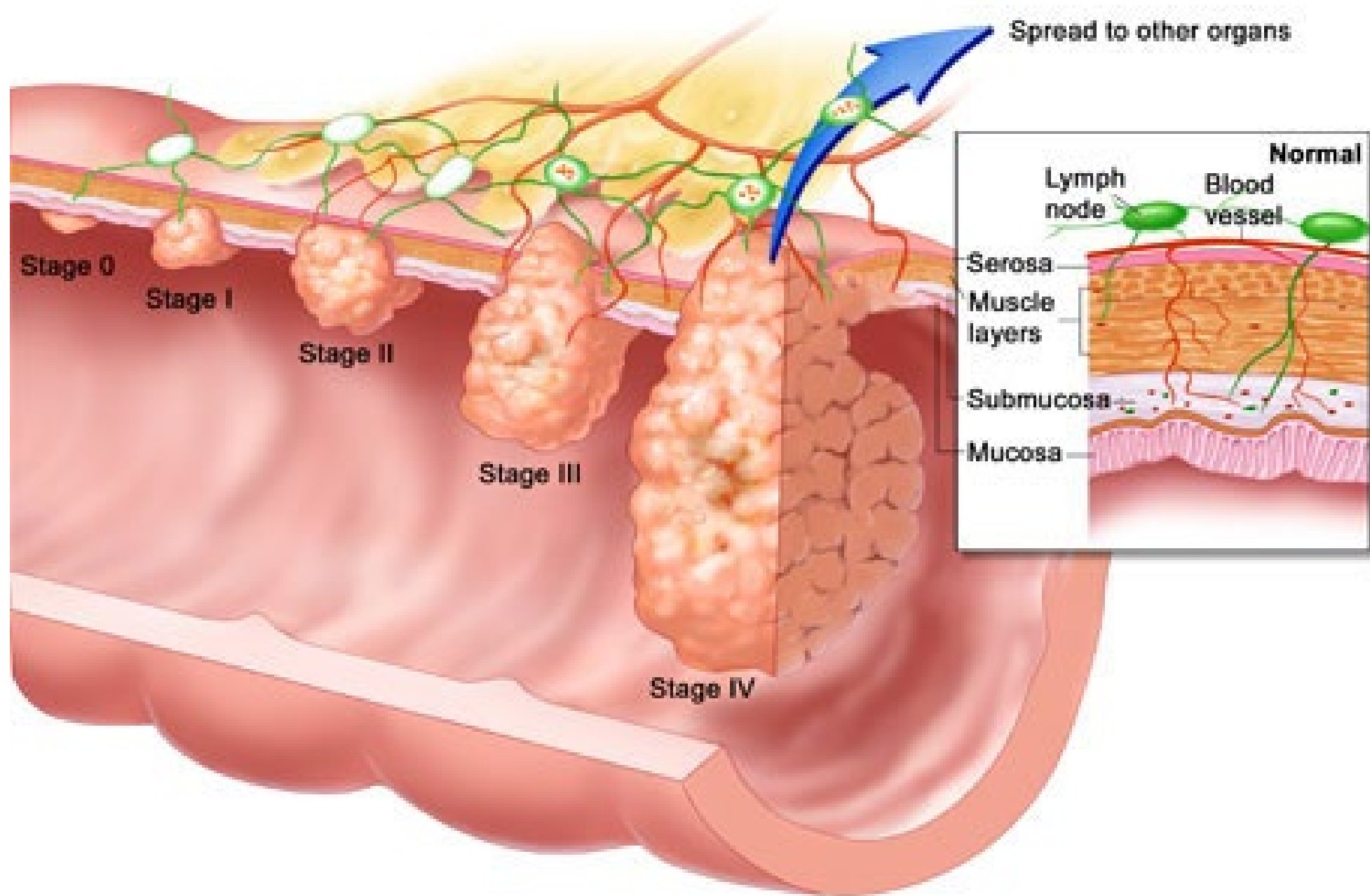




UNDERSTANDING THE

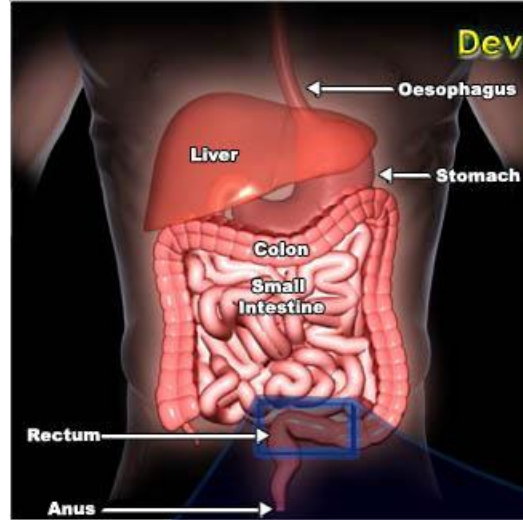
STAGES OF **COLON CANCER**

AND THEIR TREATMENT

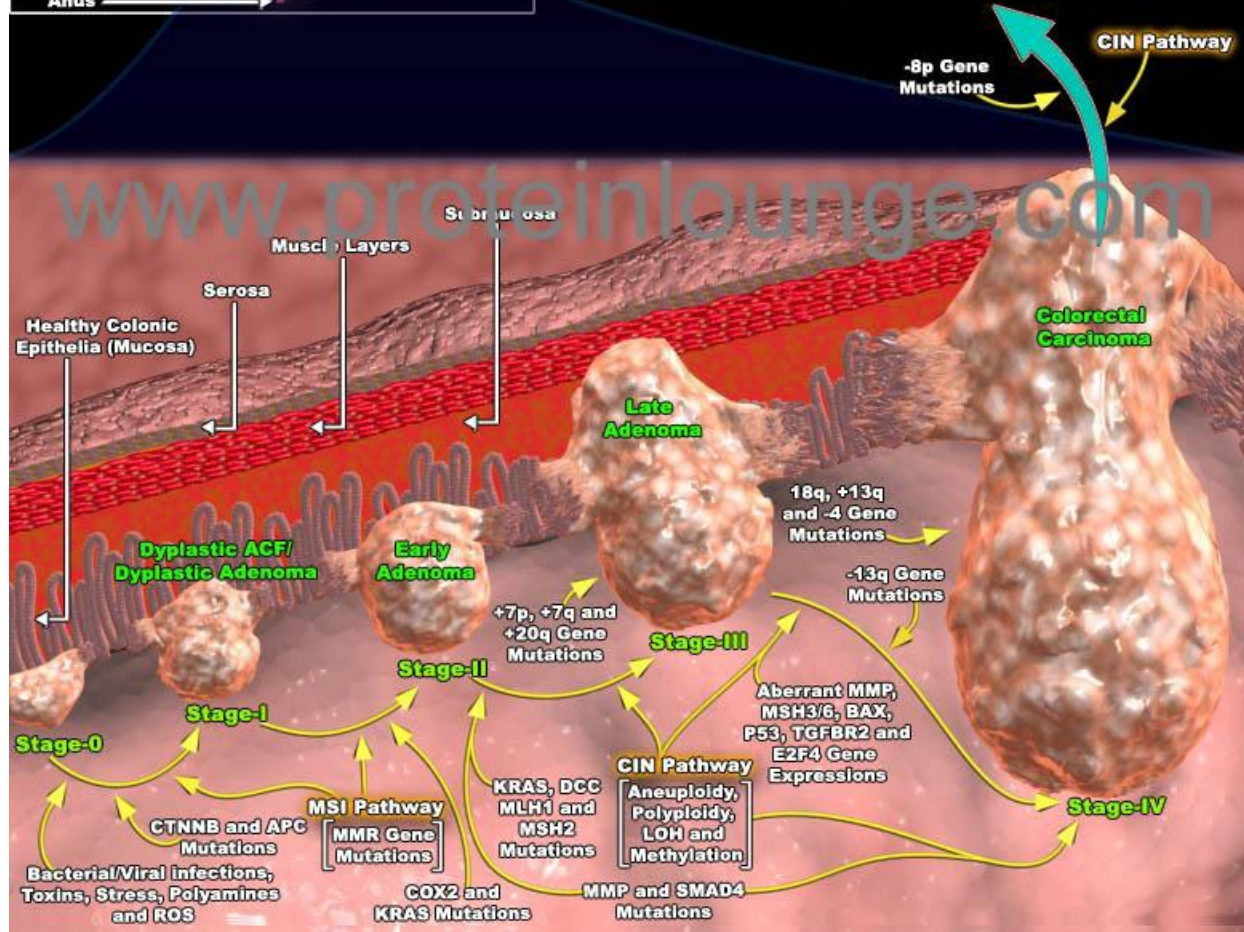


Developmental Phases of Colorectal Cancer

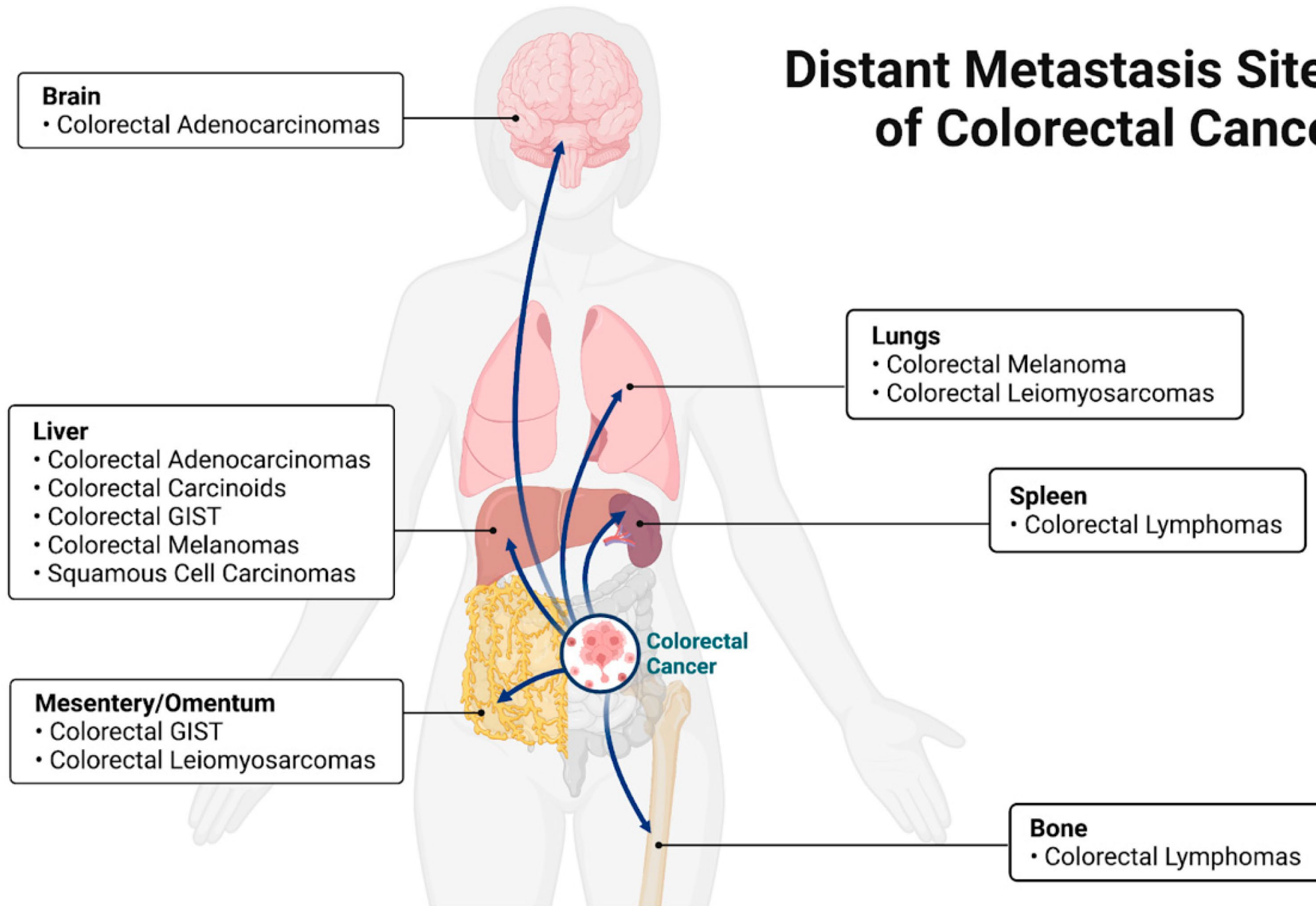
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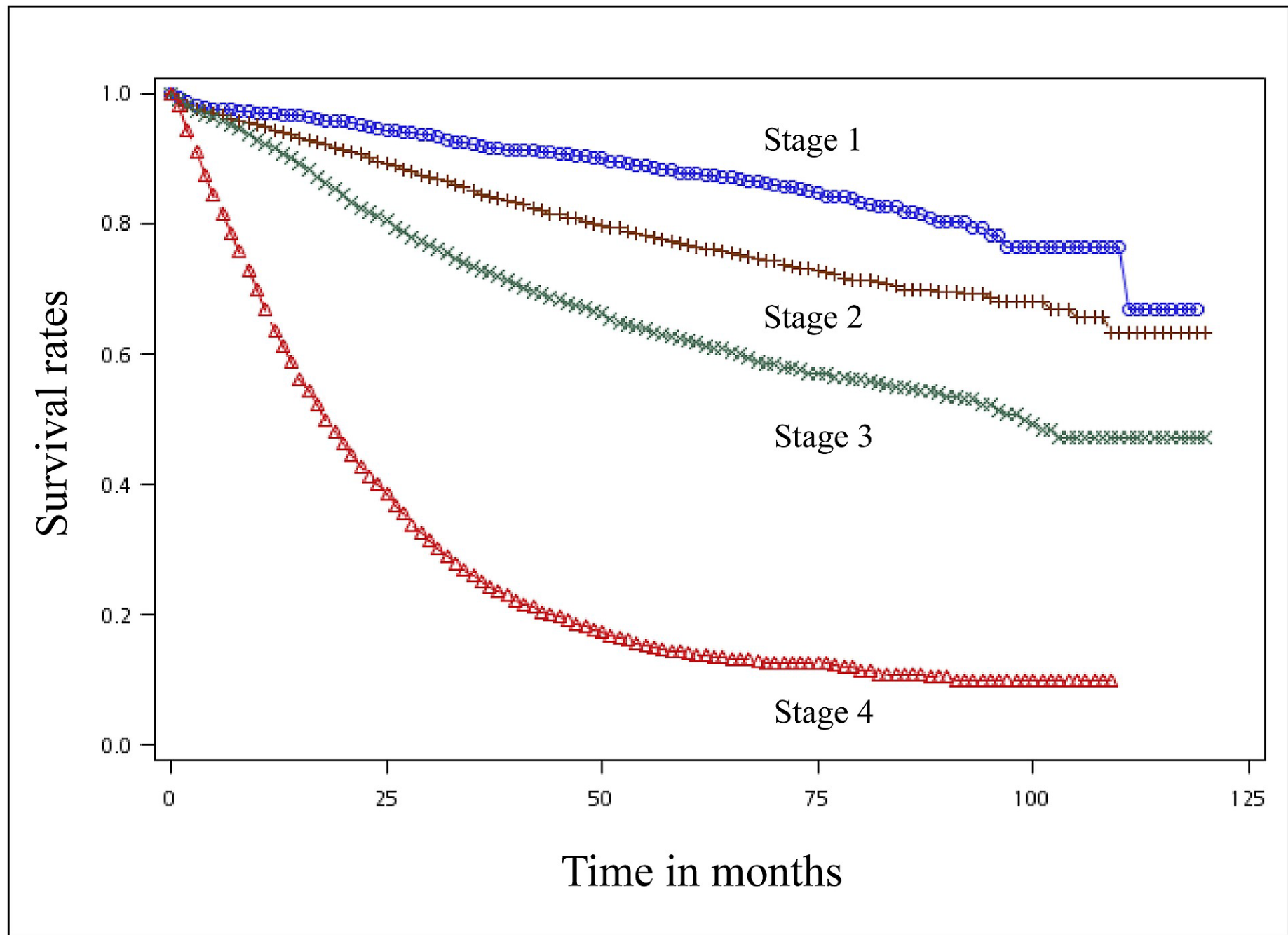


TUMOR METASTASIS
(Spread to other Organs)

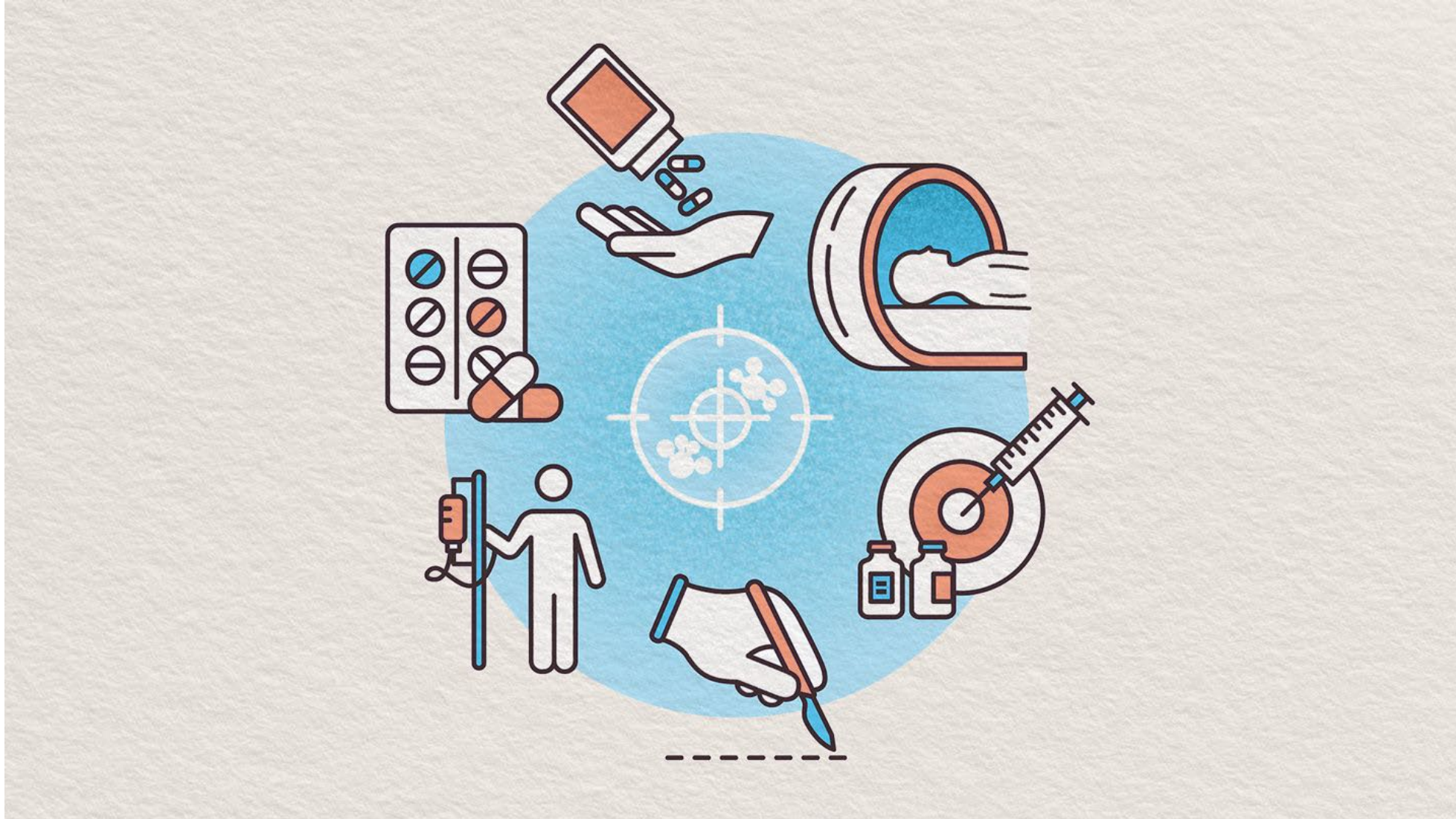


Distant Metastasis Sites of Colorectal Cancer





How Will My Colon Cancer Be Treated



Treatment Of Colon Cancer

[AS PER STAGES]

STAGE 00

Surgery is often the only treatment needed for stage 0 colon cancer.

STAGE 01

Surgery alone is recommended for stage 1 colon cancer. The technique used may vary based on the location and size of the tumor.

STAGE 02

Surgery is recommended to remove the cancerous section of the colon and nearby lymph nodes. Chemotherapy may be recommended in certain circumstances, such as if the cancer is considered high-grade or if there are high-risk features.

STAGE 03

Treatment includes surgery to remove the tumor and lymph nodes followed by chemotherapy. In some instances, radiation therapy may also be recommended.

STAGE 04

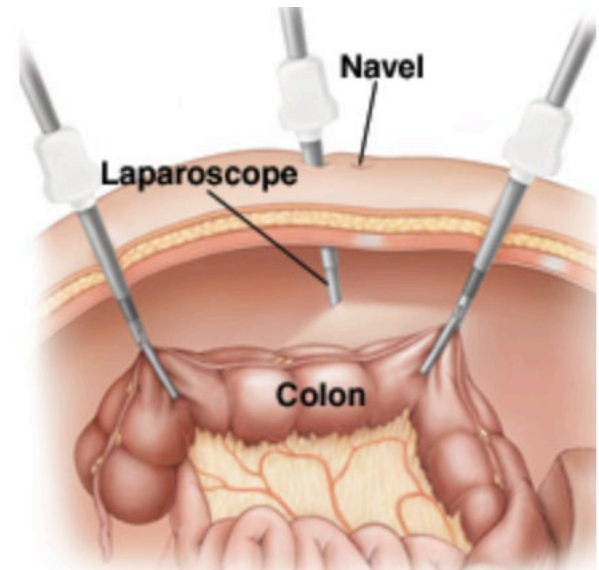
Treatment may include surgery, chemotherapy, and possibly radiation therapy. In some instances, targeted therapy or immunotherapy may also be recommended.

Robotic surgery often has improved outcomes for most colon cancer patients

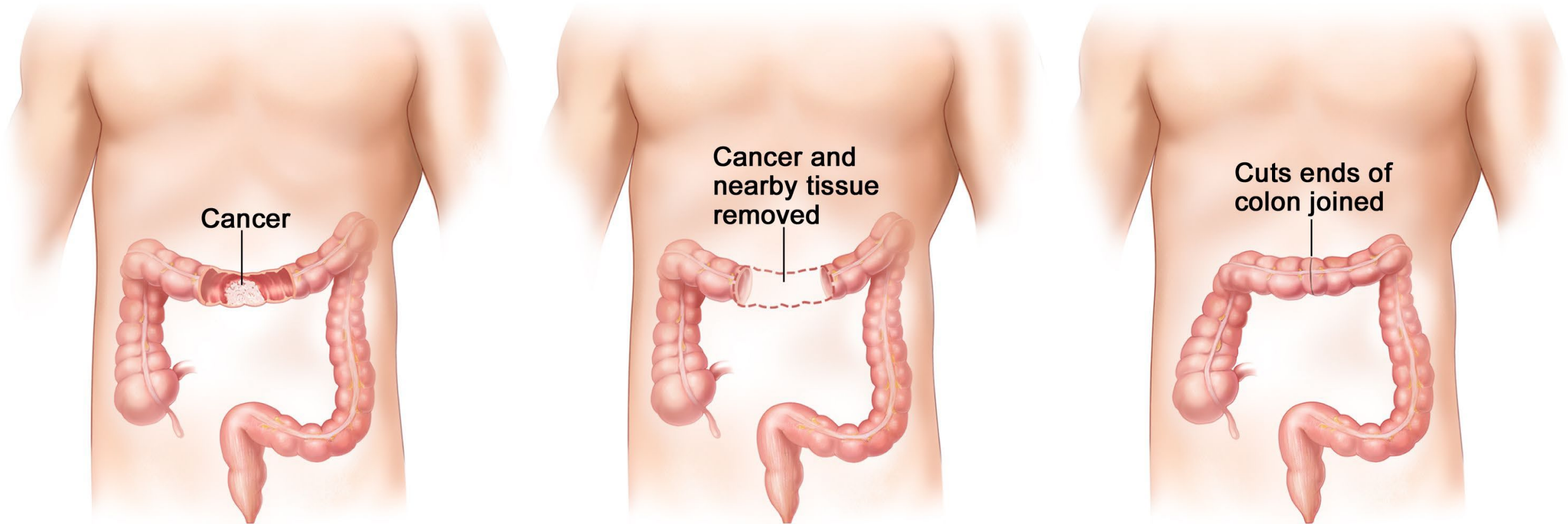


Possible benefits of a laparoscopic approach

- Less scarring
- Less pain
- Faster recovery
- Shorter hospital stay
- Quicker return to normal activity



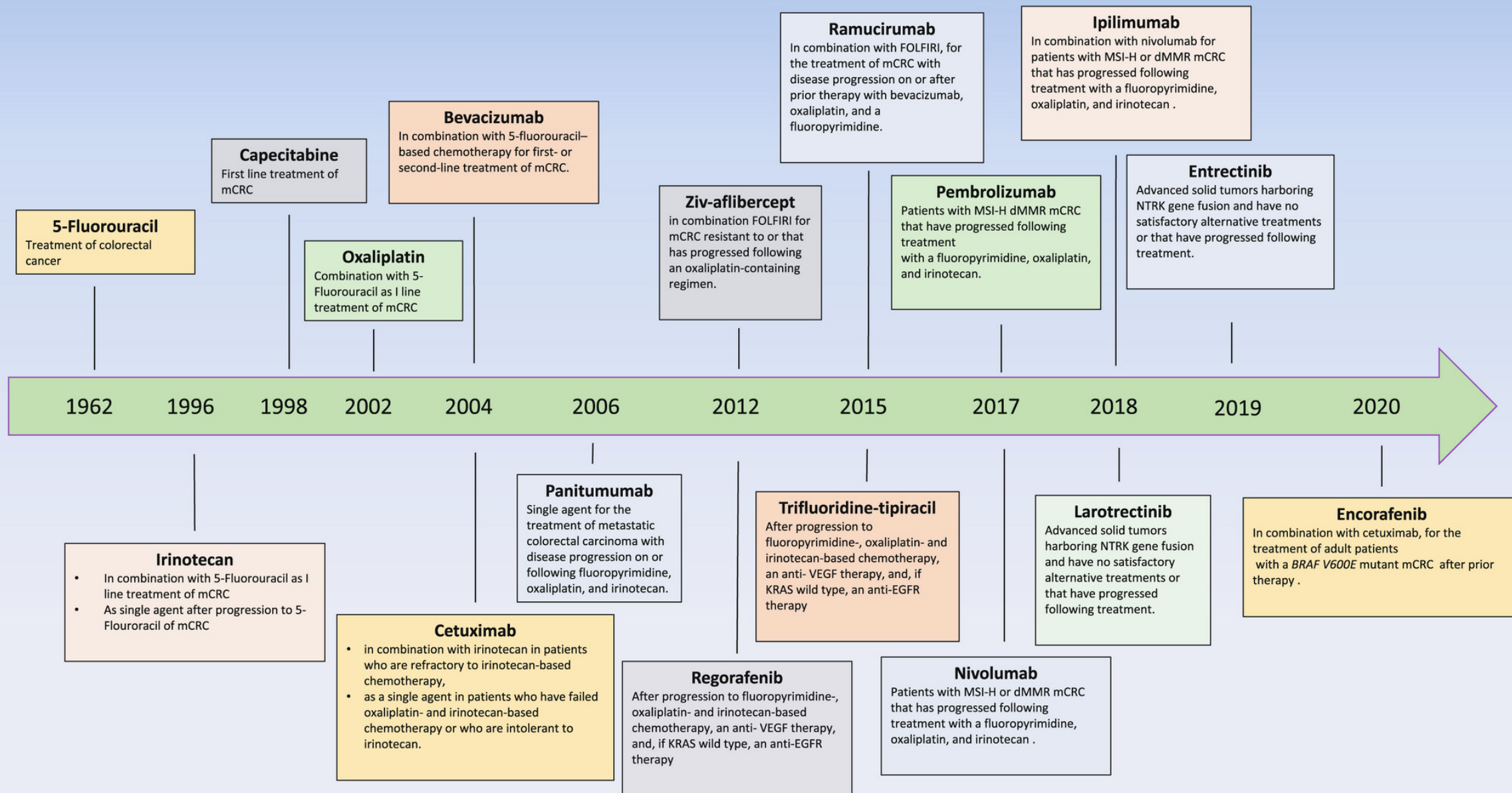
Resection of the Colon with Anastomosis



When is chemotherapy used?

Chemo may be used at different times during treatment for colorectal cancer:

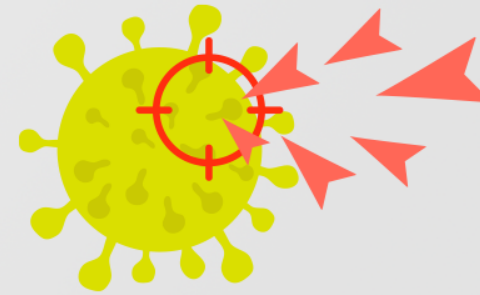
- **Neoadjuvant chemo** is given (sometimes with radiation) **before surgery** to try to shrink the cancer and make it easier to remove. This is often done for rectal cancer.
- **Adjuvant chemo** is given **after surgery**. The goal is to kill cancer cells that might have been left behind at surgery because they were too small to see, as well as cancer cells that might have escaped from the main colon or rectal cancer to settle in other parts of the body but are too small to see on imaging tests. This helps lower the chance that the cancer will come back.
- **For advanced cancers** that have spread to other organs like the liver, chemo can be used to help shrink tumors and ease problems they're causing. While it's not likely to cure the cancer, this often helps people feel better and live longer.



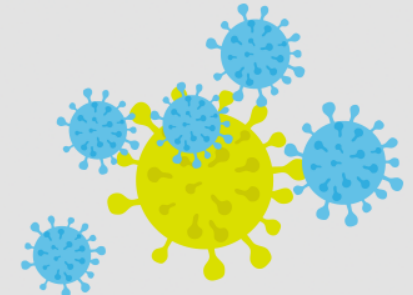
Difference between Chemotherapy, Targeted Therapy and Immunotherapy



Chemotherapy



Targeted Therapy



Immunotherapy

How does it work?

Targets rapidly dividing cells
(mostly cancer cells)

Targets Proteins required for
cancer growth

Uses our immune system against
cancer

Side Effects

Hair loss, intestinal damage,
nausea

Liver problems, diarrhea, skin
rash

Autoimmune effects

Limitations

Cancer cells develop resistance to
chemotherapy, not specific

Cancer cells develop resistance

Tailored and expensive

Types of Genetic Tests for Cancer

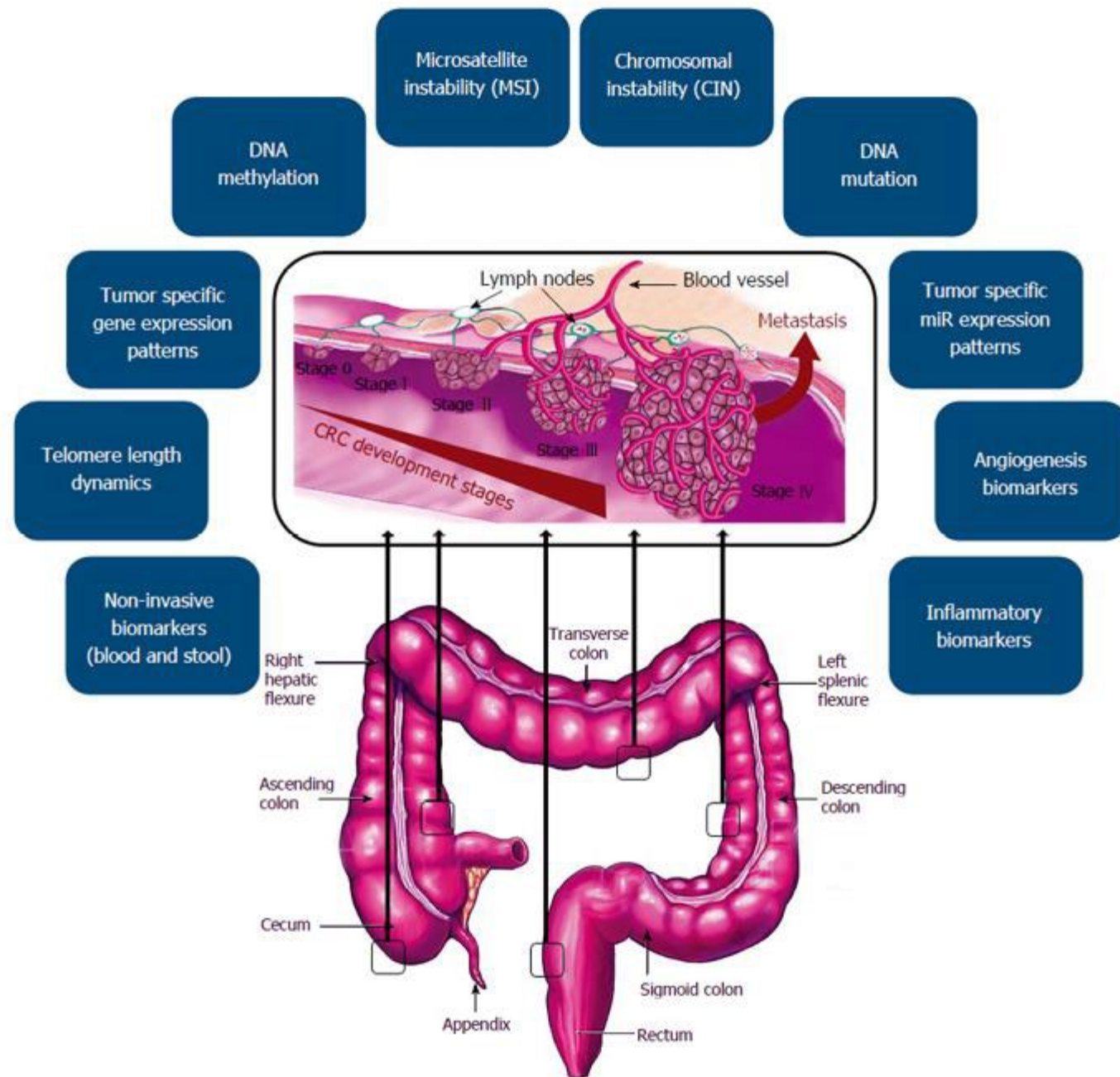
Germline:

Normal cells are tested for genetic mutations that may be inherited and increase your risk of cancer

Somatic tumor:

Cells from a known cancer are tested for mutations that could impact your prognosis or determine treatment





Patient's
right

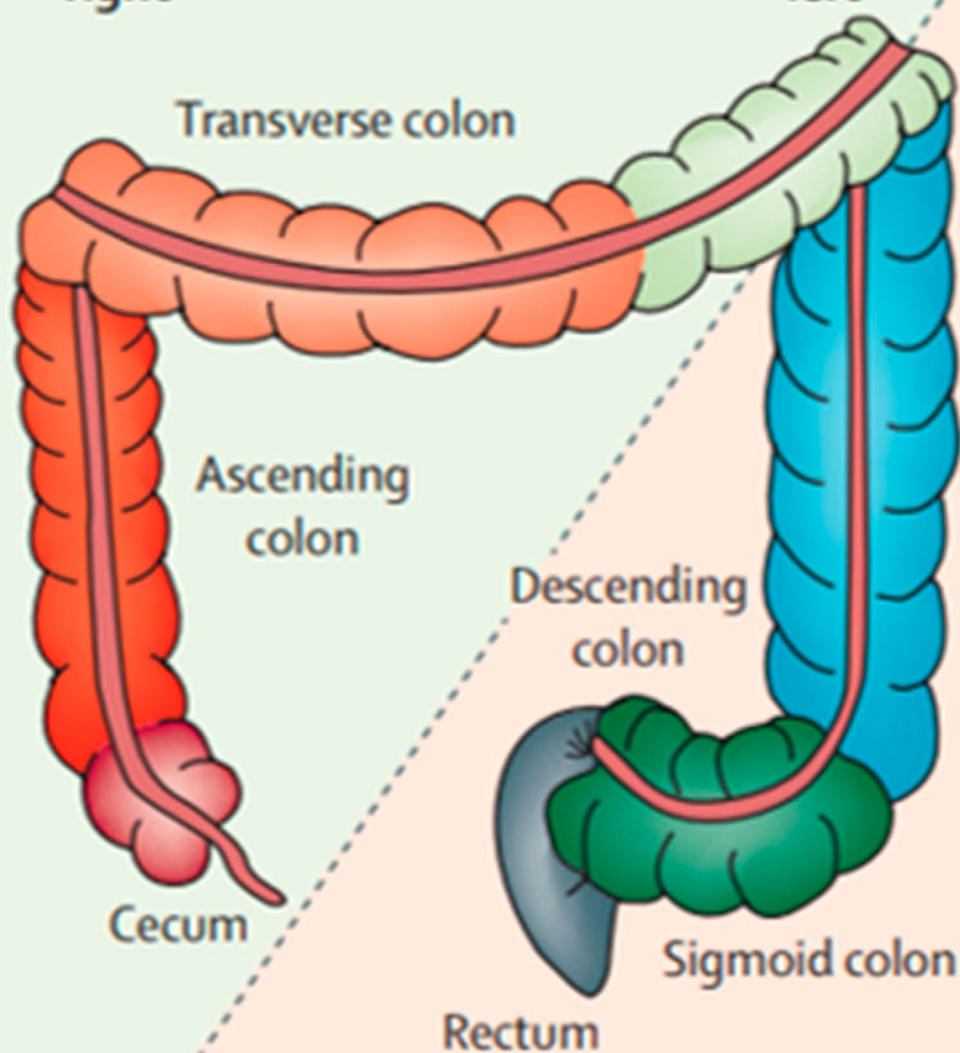
Patient's
left

Midgut derivative

- ↑ Women
- ↑ Sessile serrated lesions
- ↑ Mucinous tumours

Overall worse prognosis*

- ↑ CIMP-high
- ↑ BRAF
- ↑ MSI-high
- ↑ MSI immune tumours (CMS1)
- ↑ Metabolic tumours (CMS3)
- (↑ KRAS)

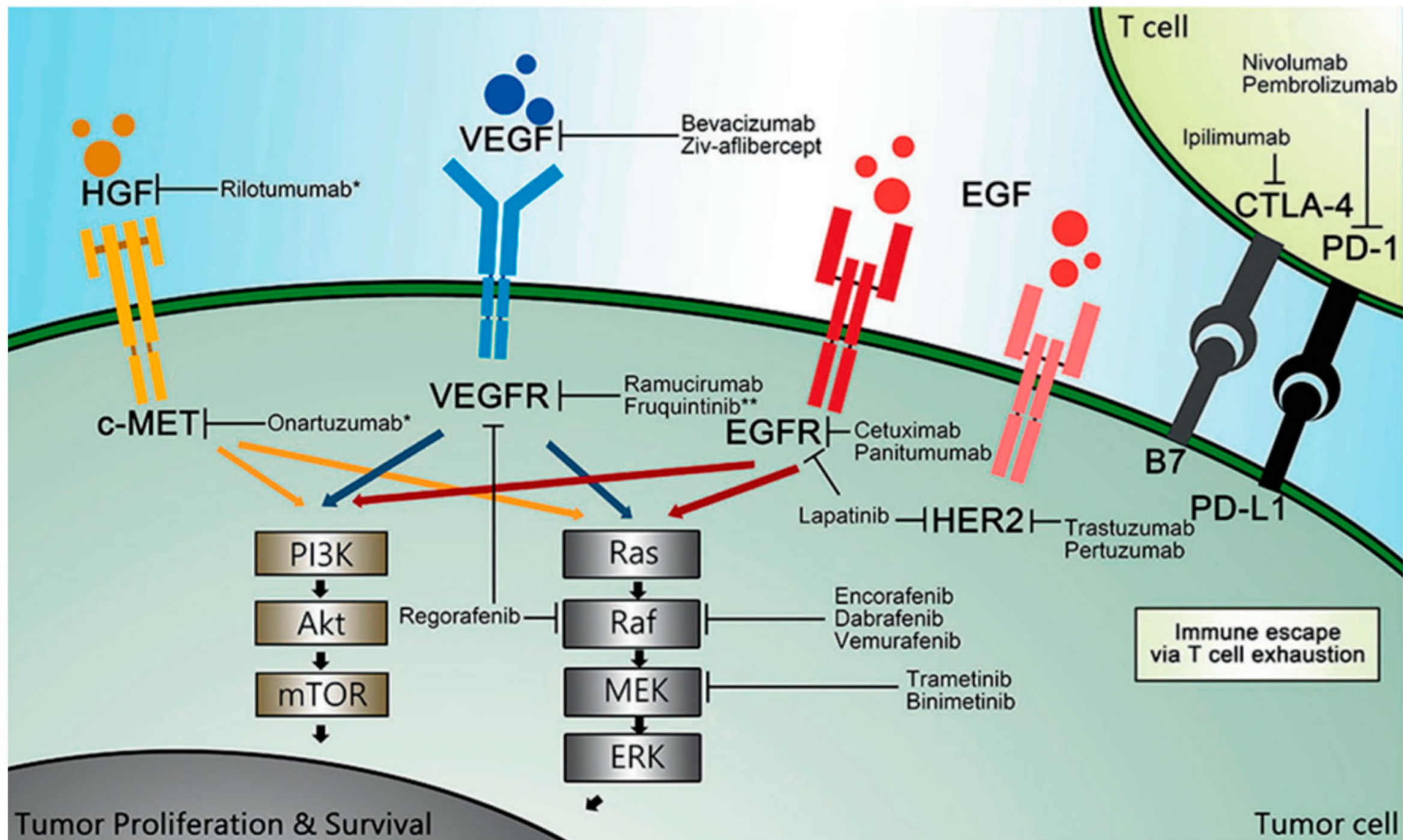


Hindgut derivative

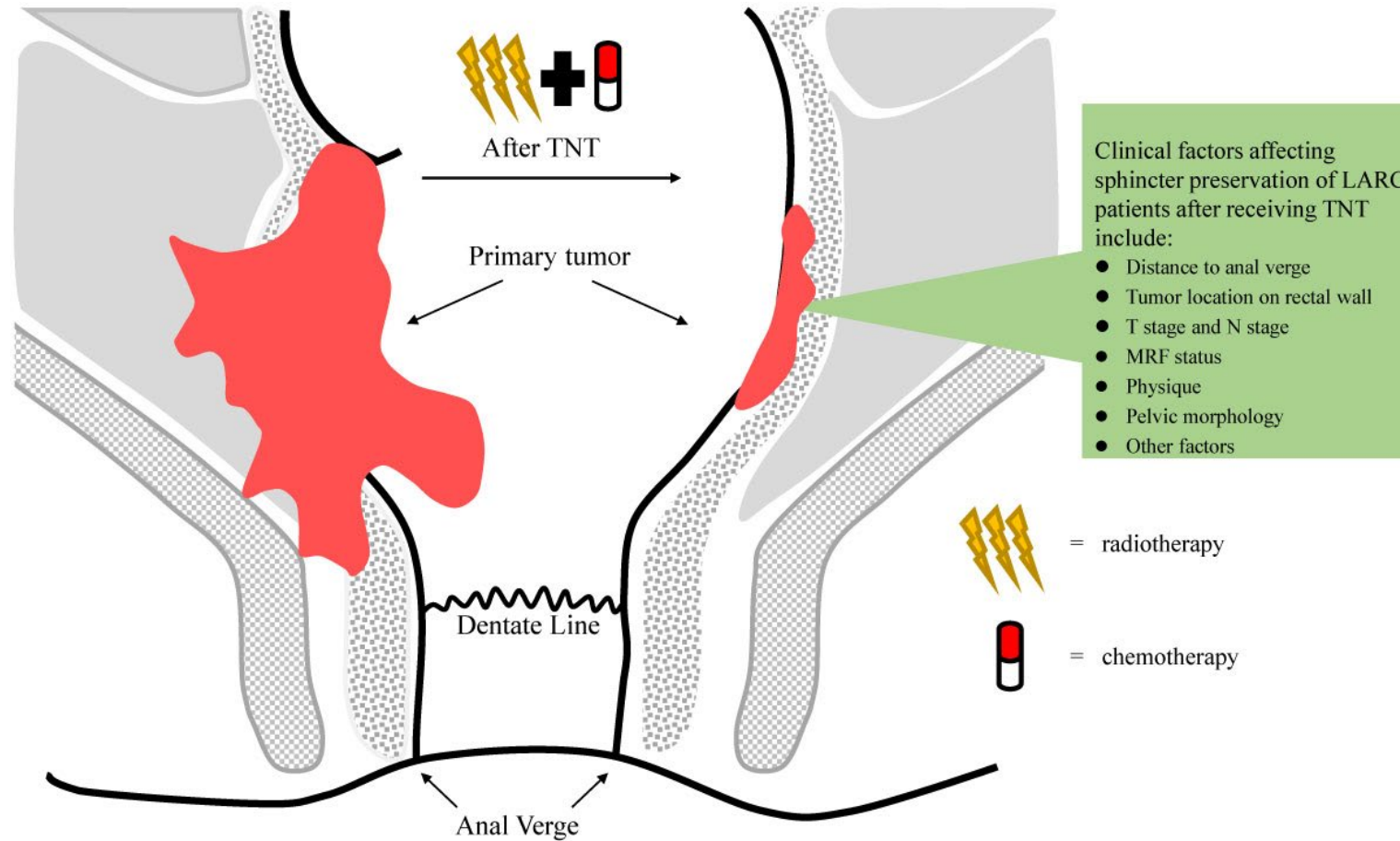
- ↑ Men

Overall better prognosis*

- ↑ Mesenchymal (CMS4)
- ↑ Canonical (CMS2), distally
- ↑ TP53
- ↑ APC



Rectal Cancer

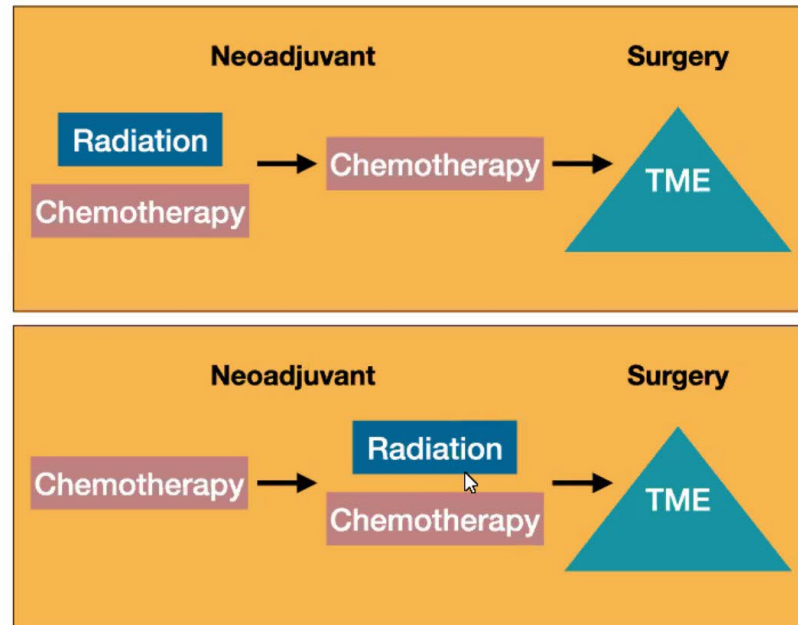


Rectal cancer

What's emerging:



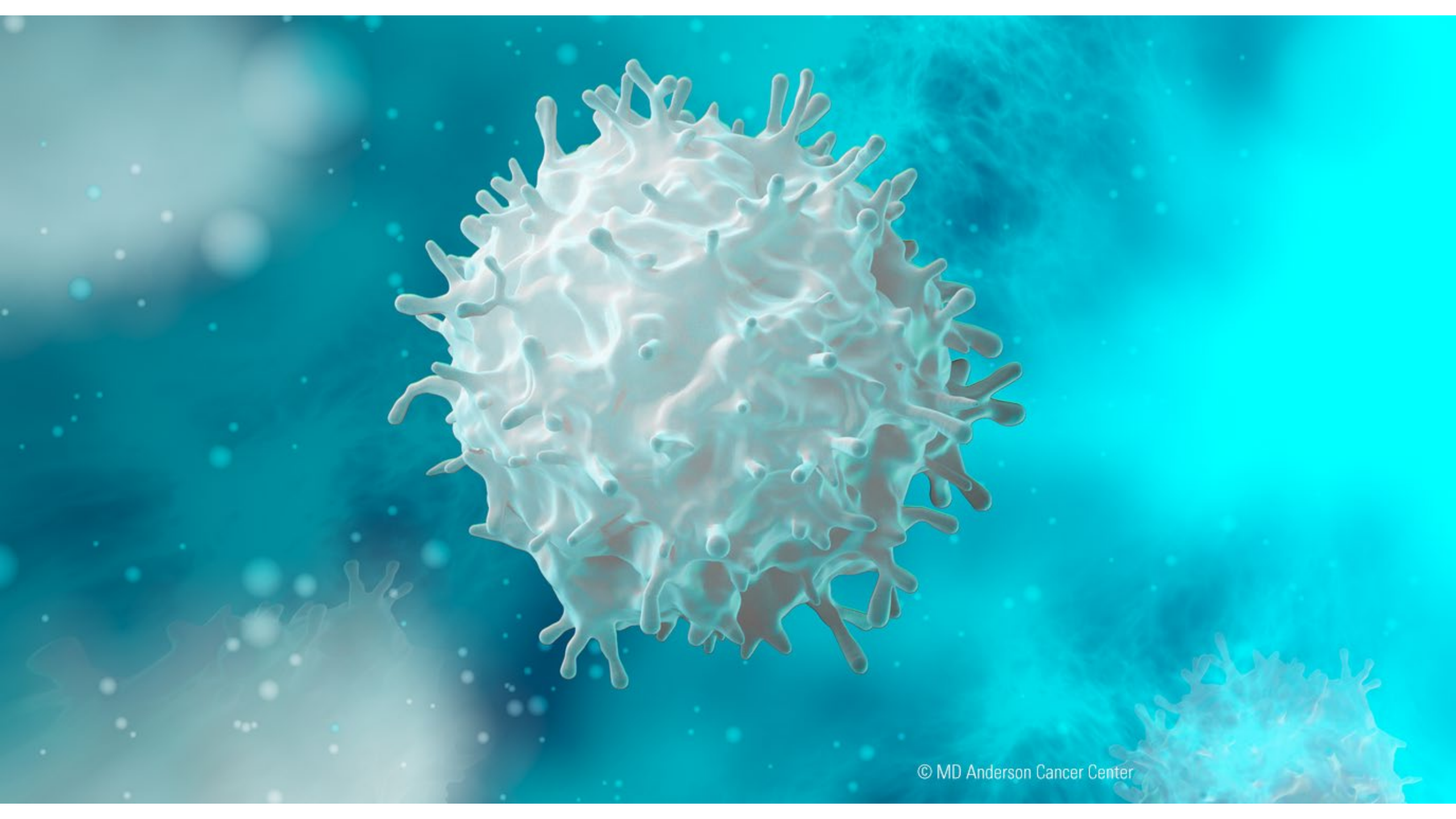
The Total Neoadjuvant Therapy Paradigm



- Several trials have demonstrated the feasibility of TNT, with chemo either after chemoRT (consolidation) or before chemoRT (induction)

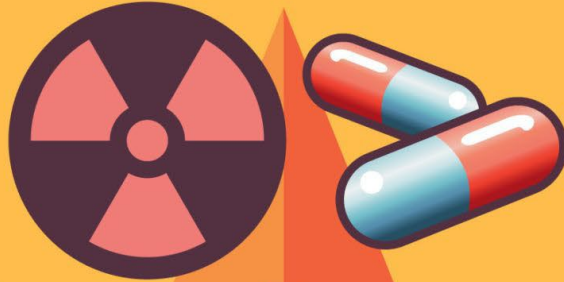
- **Rationale:**

- Increase tumor regression and complete resectability
- Maximize compliance
- Improve delivery of planned systemic treatment
- Address potential micrometastatic disease and reduce risk of DM
- Improve overall survival



TRADITIONAL CANCER THERAPIES

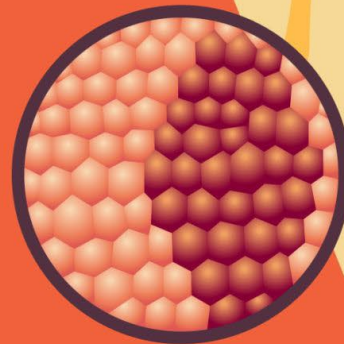
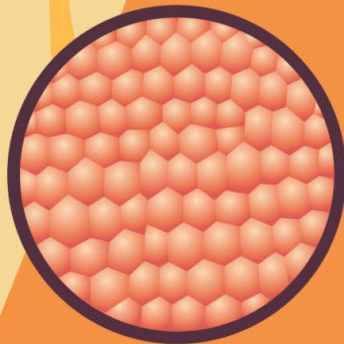
RADIATION OR DRUGS



KILLS

HEALTHY CELLS

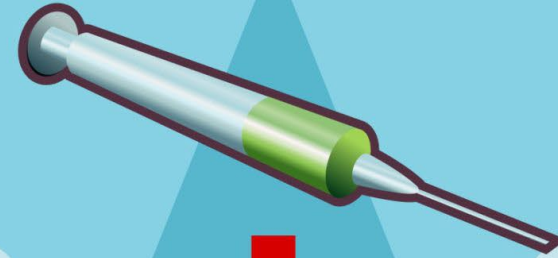
CANCEROUS CELLS



MANY SIDE EFFECTS

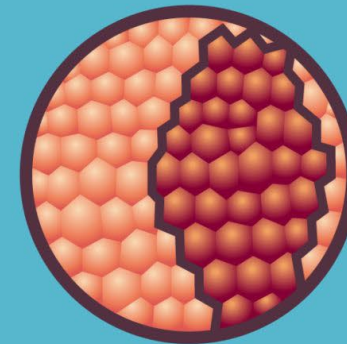
CANCER IMMUNOTHERAPIES

IMMUNOTHERAPY UNLEASHES
THE PATIENT'S OWN IMMUNE SYSTEM

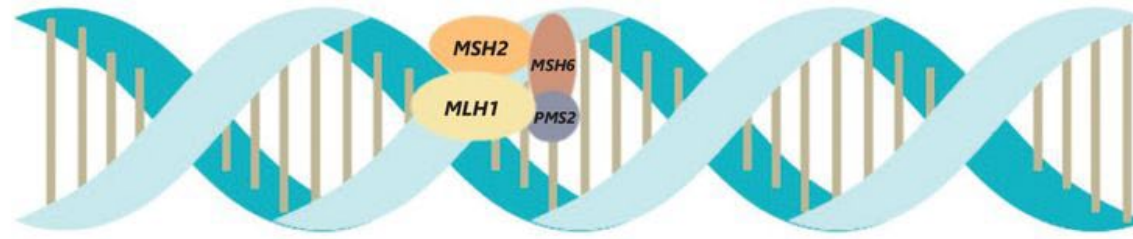


KILLS

SELECTIVELY CANCEROUS CELLS



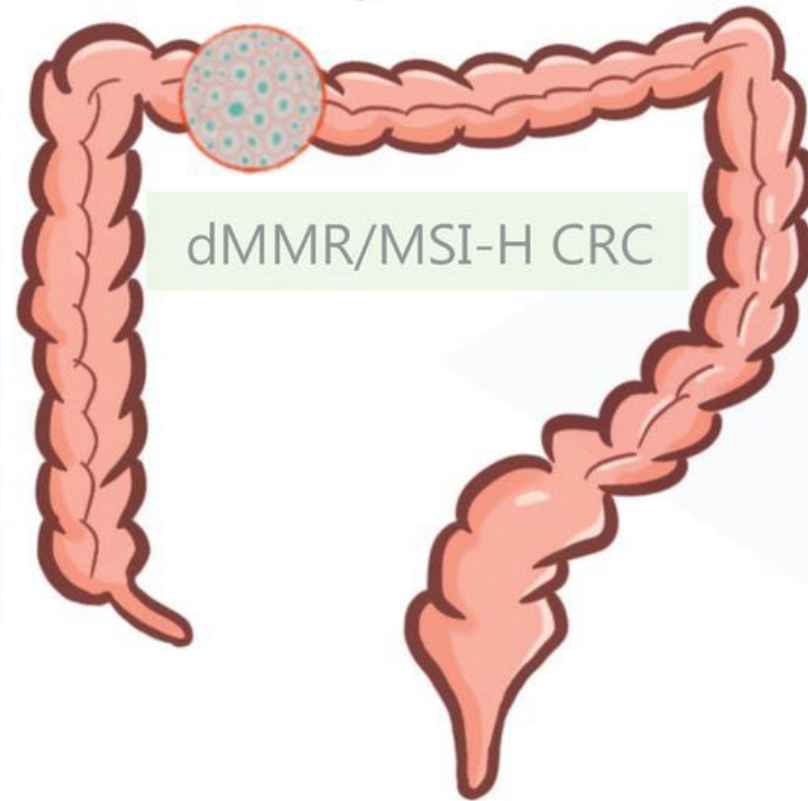
FEW TO NO SIDE EFFECTS



Immunotherapy

Opportunities

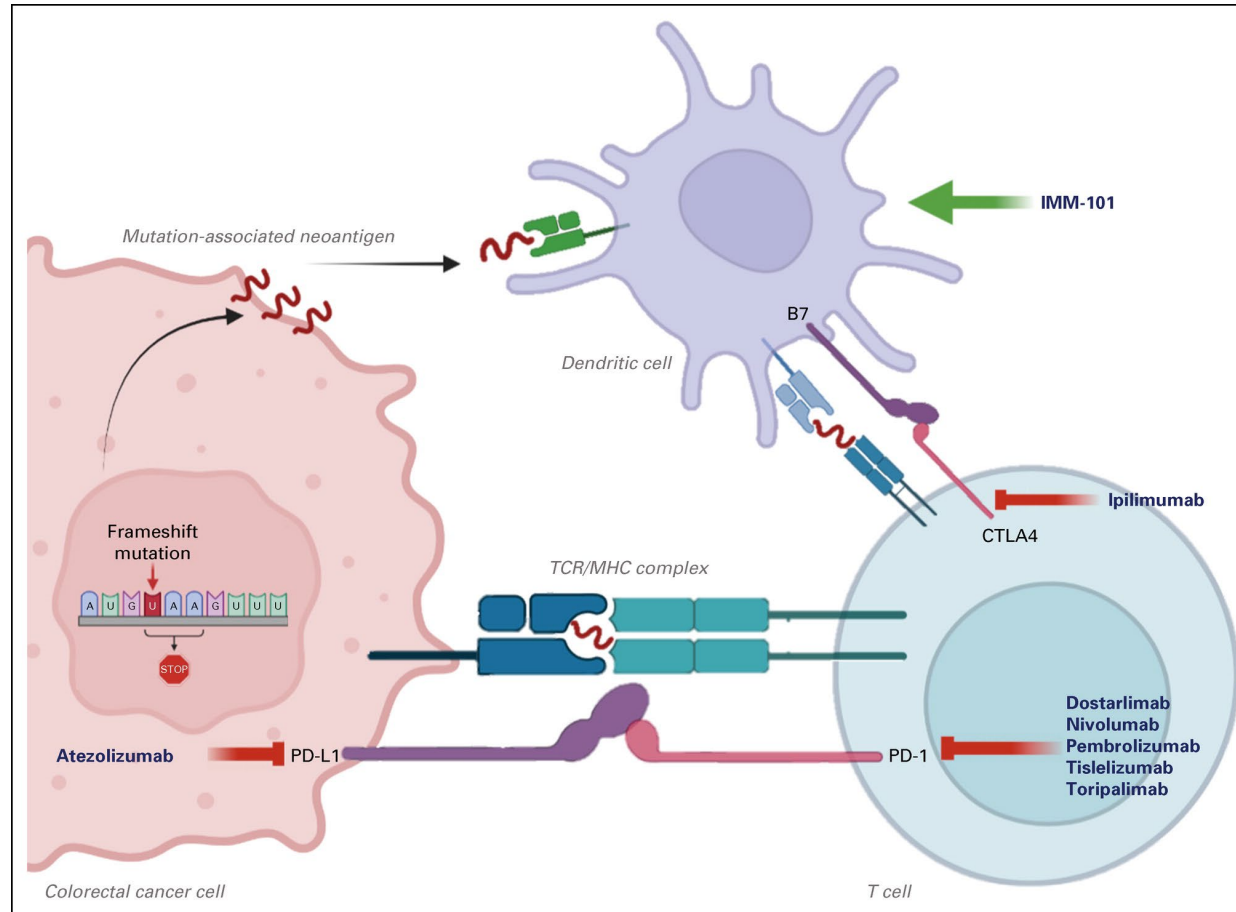
Longer survival
Higher response rate
Lower AE rate
Better quality of life



Challenges

Patient selection
Regimen selection
Treatment duration
Radiographic evaluation
Immune-related AE
Resistance

Immune checkpoint inhibitor therapy activates mutation-associated neoantigen-primed T cells and induces antitumor response.

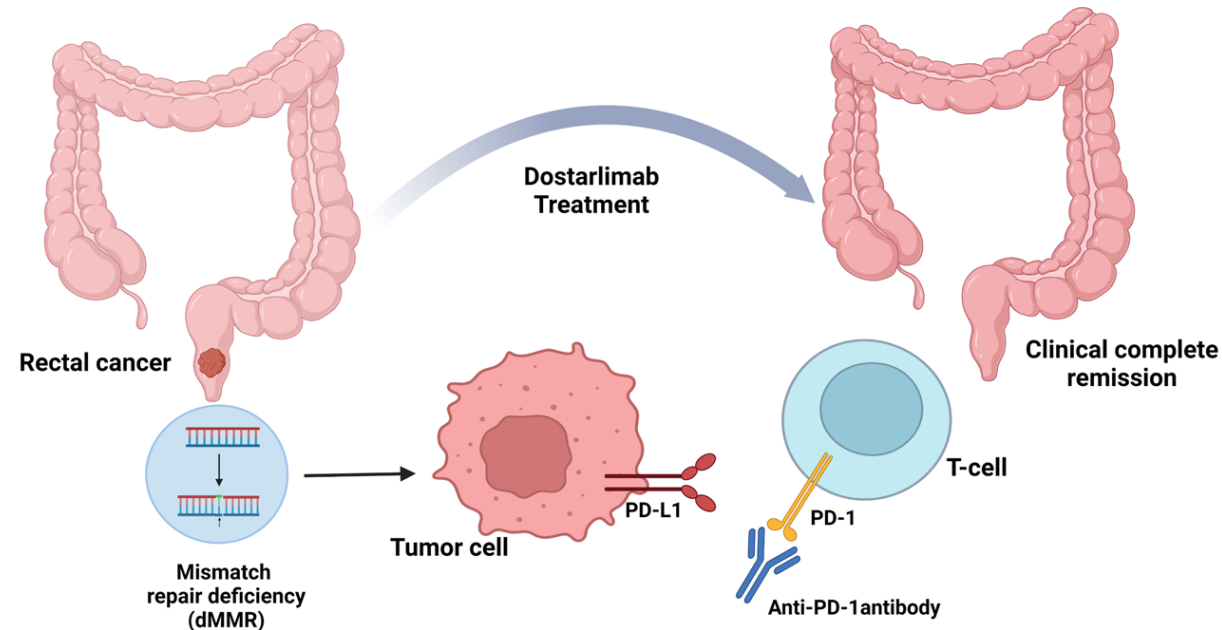


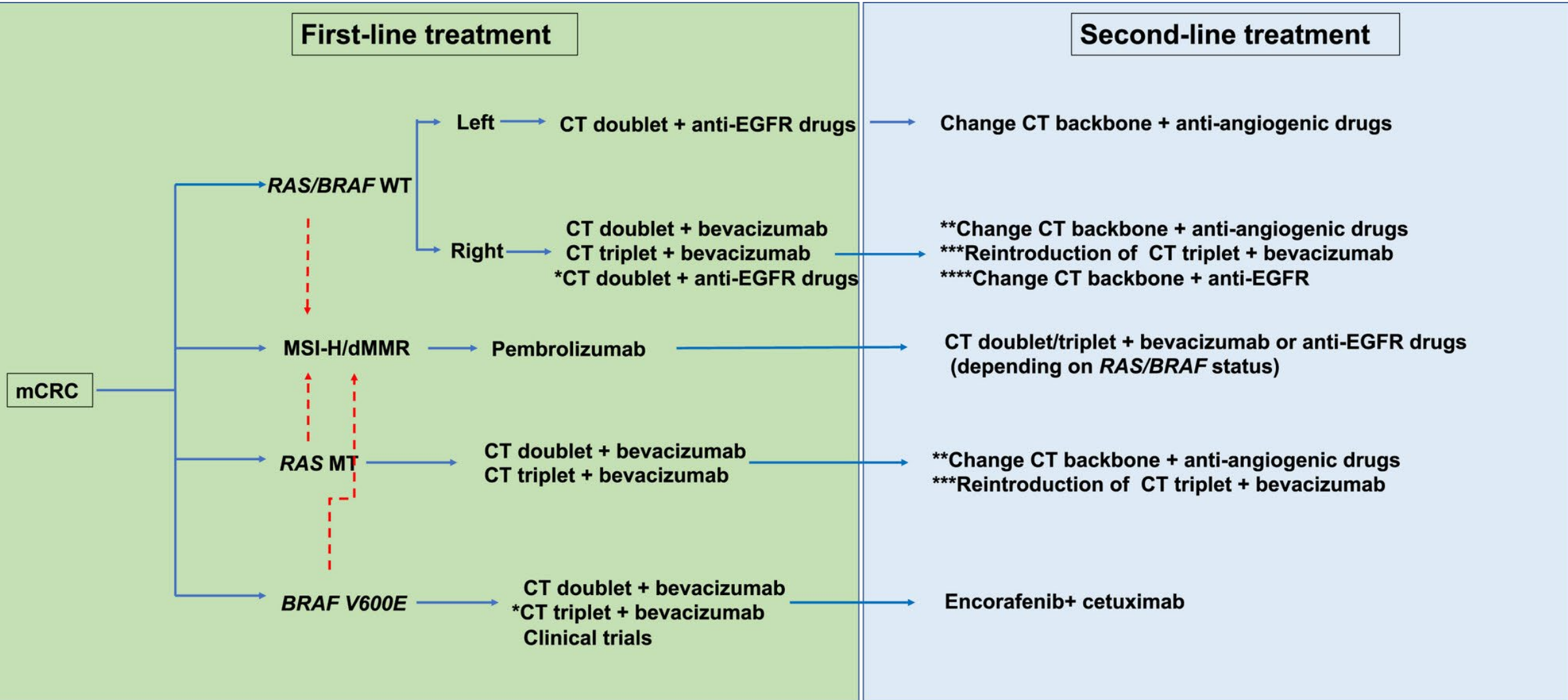
Neoadjuvant PD-1 blockade: mismatch repair–deficient, locally advanced rectal cancer

a

Summary of published clinical trials of neoadjuvant immunotherapy in dMMR, locally advanced CRCs					
Trials	Setting	Phase	Patients (lynch syndrome,%)	Therapy	Outcome
NICHE	Neoadjuvant	II	32 (13, 41%)	Nivolumab+ipilimumab	pCR (69%)
PICC	Neoadjuvant	II	17 vs 17 (4, 24% vs 1, 6%)	Toripalimab+celecoxib vs Toripalimab	pCR (88% vs 65%)
NCT04165772	Neoadjuvant	II	14 (8, 57%)	Dostarlimab	cCR (100%)

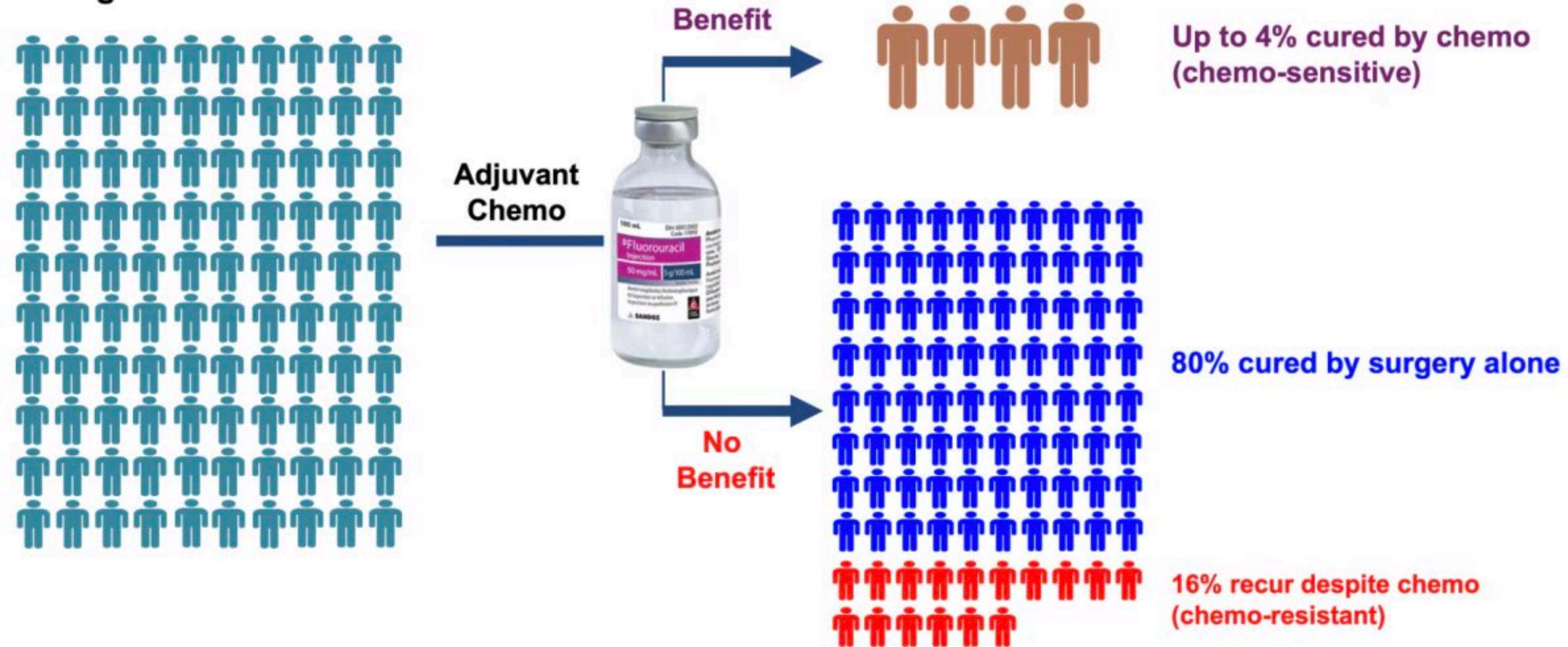
b





The Crux of Adjuvant Therapy in CRC: Treat Many to Save a Few

Stage II Colon Cancer



Using cancer DNA in the blood (ctDNA) to determine management for patients who have had surgery for colon cancer

NRG
ONCOLOGY

Advancing Research. Improving Lives.™



ABOUT THE TRIAL

NRG-GI008: Colon Adjuvant Chemotherapy
Based on Evaluation of Residual Disease
(CIRCULATE-US)

ABOUT NRG ONCOLOGY

As one of the five research groups in

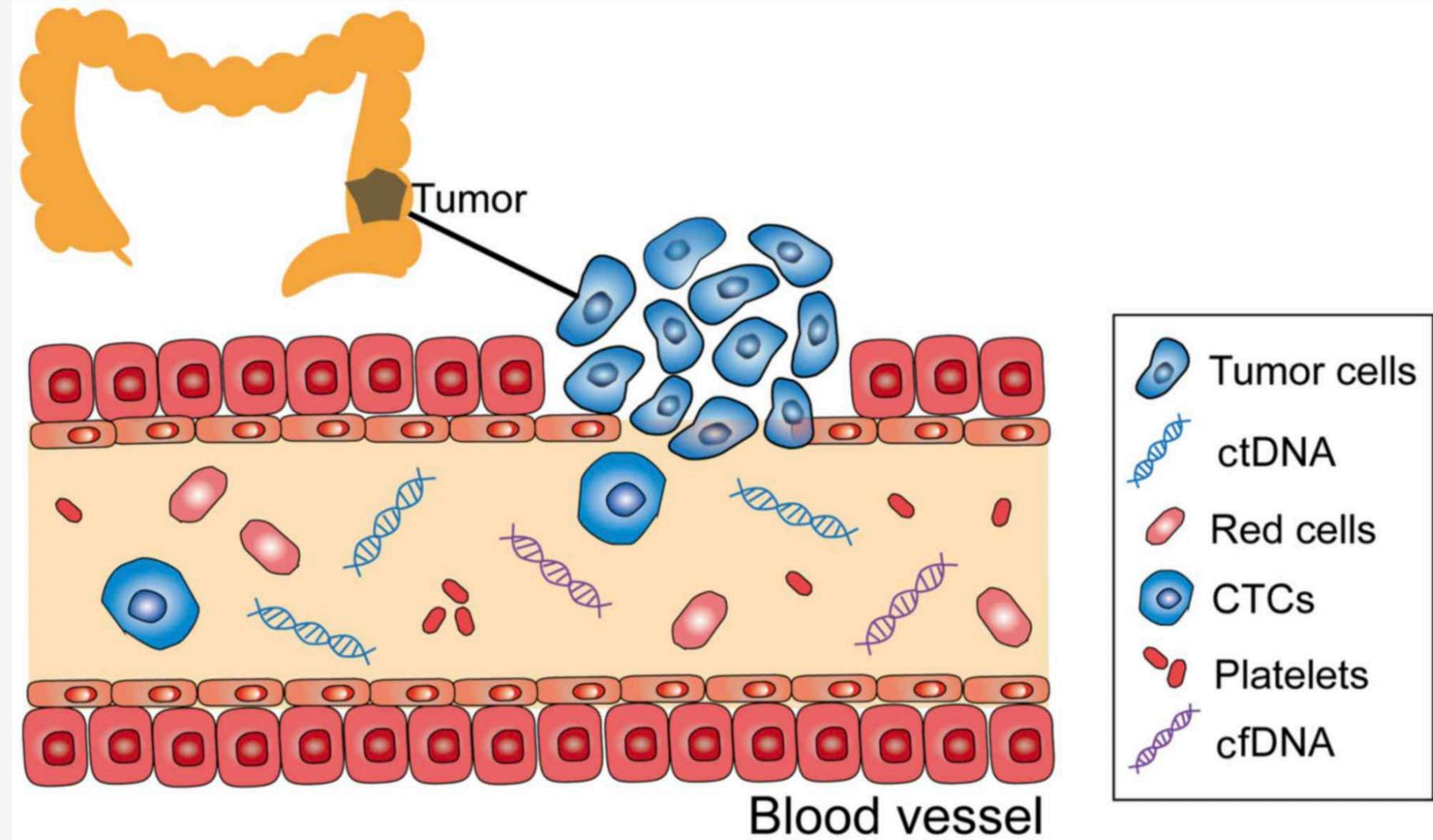
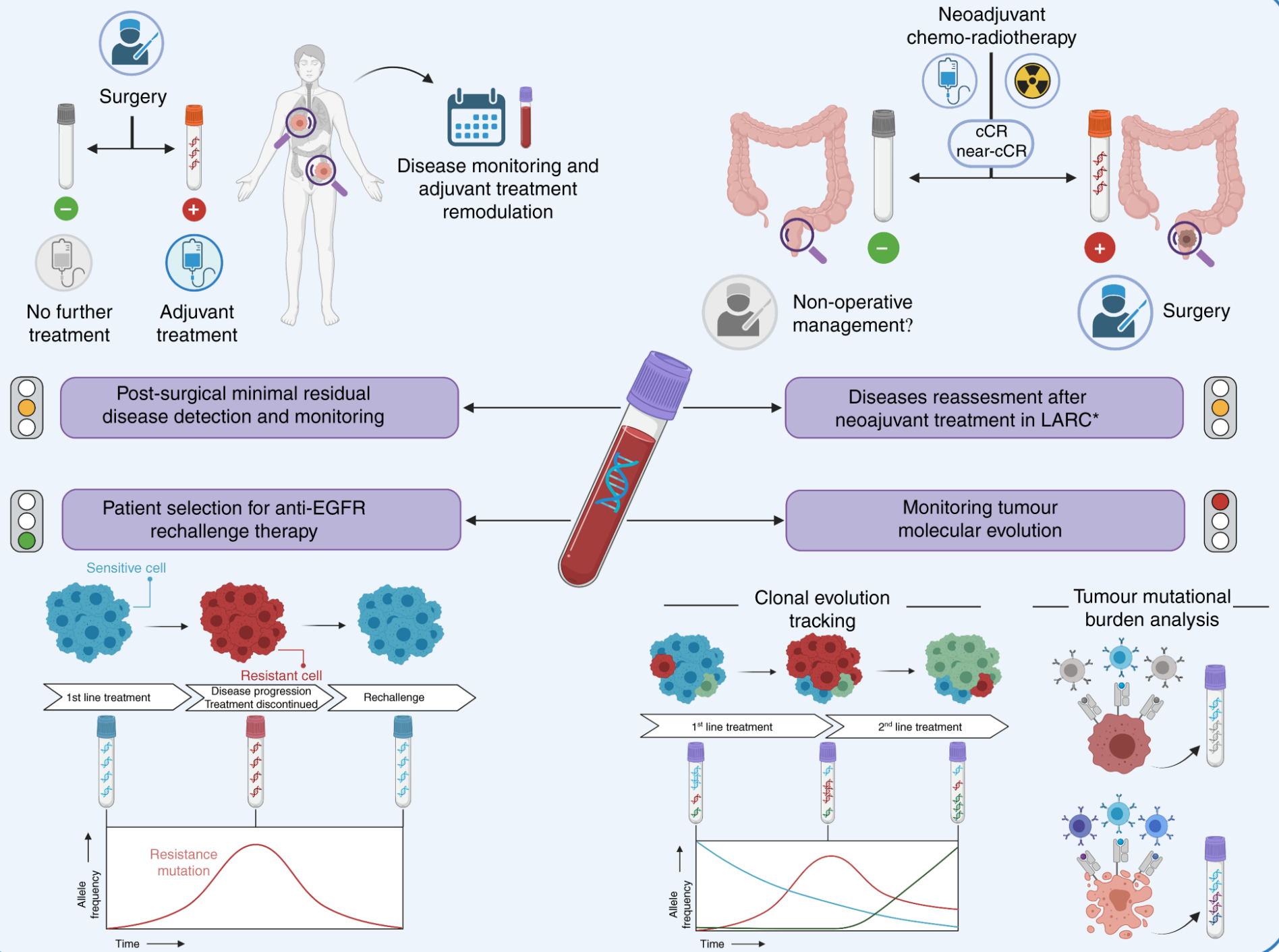
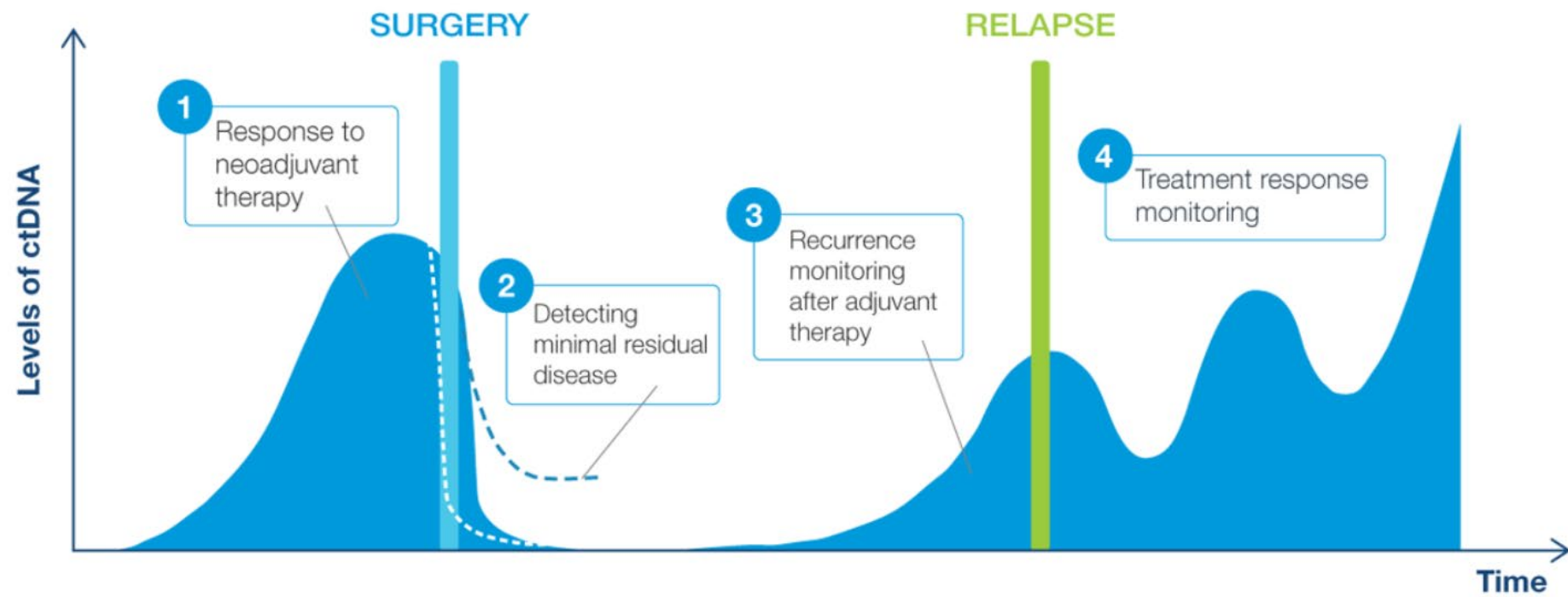
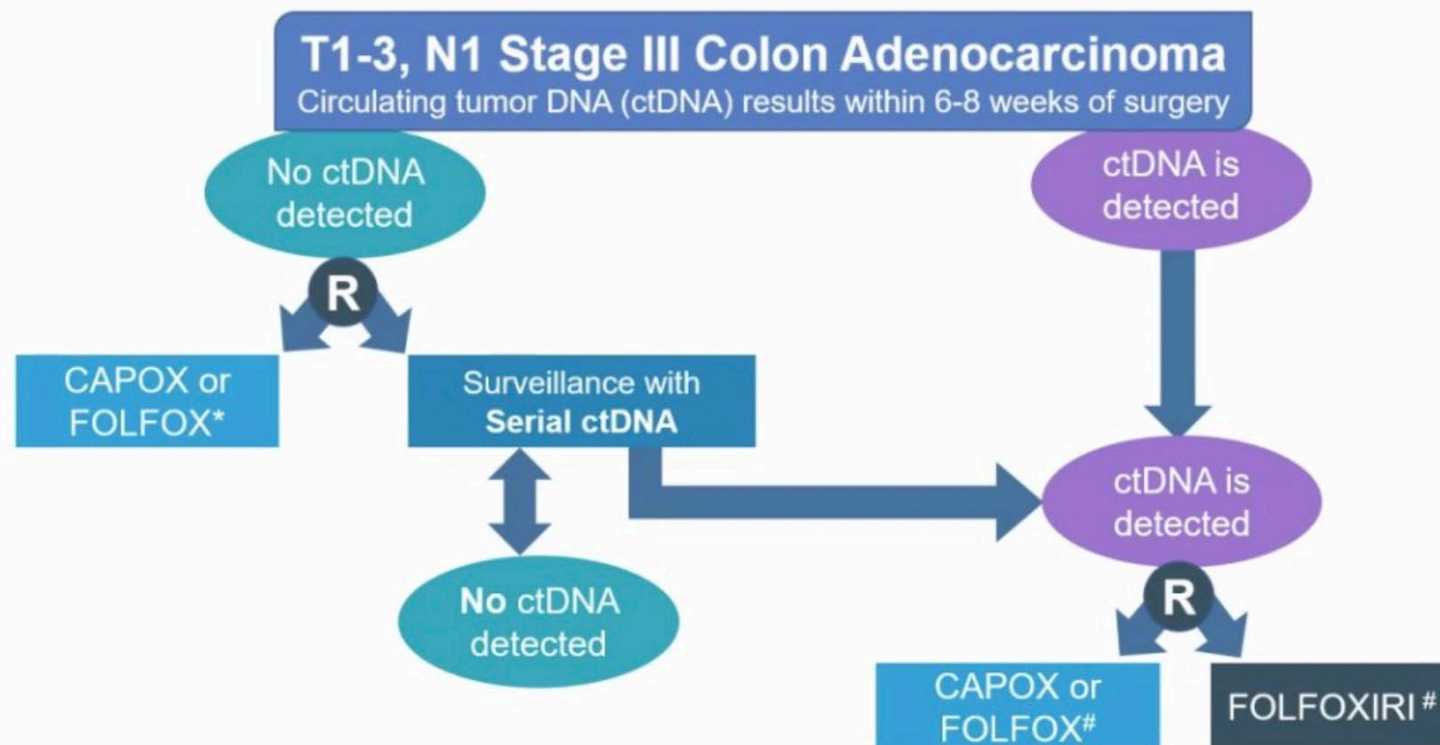


Figure 1. - CTCs, ctDNA and cfDNA in the peripheral blood stream. ctDNA, circulating tumor DNA; CTC, circulating tumor cell; cfDNA, cell-free DNA.







PIs:

Arvind Dasari (MDACC)
Christopher Lieu (UCCC)

*: Duration and regimen per physician discretion
#: 6 months duration

NRG-GI008

Colorectal Cancer Conclusions

1. Colorectal cancer is a growth of cells that forms in the lower end of the digestive tract.
 - Removing polyps can prevent cancer, screenings for those at high risk or over the age of 45.
2. Symptoms might include blood in the stool, abdominal discomfort, change in bowel habits.
3. Colorectal cancer treatment depends on the size, location, genetic analysis and stage of cancer.
4. Treatments may include surgery, chemotherapy, immunotherapy, targeted therapy and radiation therapy.
5. Genetics and Immunology are playing an increasing role.

Colorectal Cancer: What Patients Need To Know

Eden Stotsky-Himelfarb, BSN, RN, ONN-CG

Breast Cancer Clinical Triage Coordinator

Johns Hopkins Sidney Kimmel Comprehensive Cancer Center

Baltimore, Maryland

March 20, 2024



Personal Story - Statistics

1 diagnosis – 1997 – Stage 3b rectal cancer

2 surgeries – 1997 and 2018

30 radiation treatments - 1998

30 chemotherapy treatments - 1998

24 colonoscopies and counting – 1997 - 2021

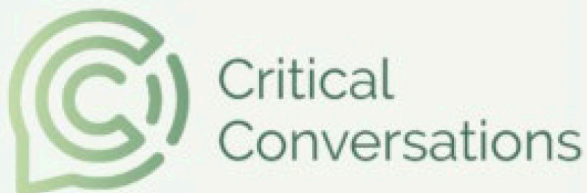
Numerous blood draws

Countless CT scans

Multiple PET scans

Six unsuccessful cycles of invitro fertilization – 2010-2012

1 successful adoption - 2013



Survivorship

- Surveillance – H&P, CEA, CT c/a/p, colonoscopy
- Impact on Quality of Life – physical and emotional impact



Survivorship

- Long-term side effects – GI problems, uterine dysfunction, vaginal stenosis, menopause, fatigue, sleep difficulty, fear of recurrence/scarcity, anxiety, depression, negative body images, peripheral neuropathy, urinary incontinence, sexual dysfunction, difficulties with sexual health or intimacy
- Late term effects – secondary cancers s/p radiation

Survivorship

- Finding a PCP with knowledge of cancer surveillance
- Impact on relationships



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[Survivorship](#)

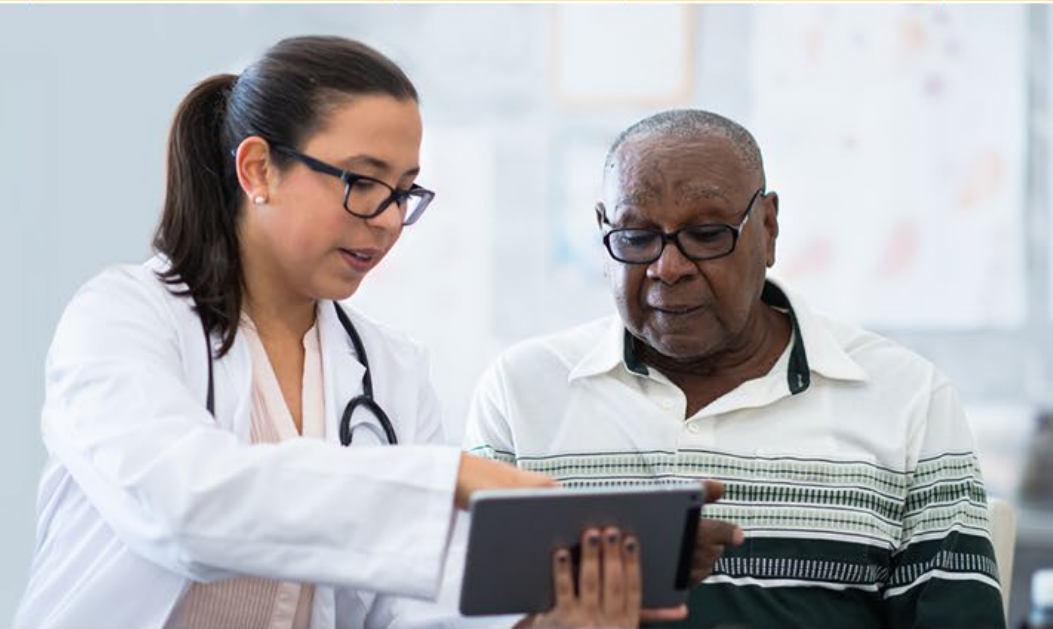
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