

Clinician Management Resource for EPCAM (Lynch syndrome)

This overview of clinical management guidelines is based on this patient's positive test result for a pathogenic or likely pathogenic variant in the *EPCAM* gene. Unless otherwise stated, medical management guidelines used here are limited to those issued by the National Comprehensive Cancer Network[®] (NCCN[®])¹ in the U.S. Please consult the referenced guideline for complete details and further information.

Clinical correlation with the patient's past medical history, treatments, surgeries and family history may lead to changes in clinical management decisions; therefore, other management recommendations may be considered. Genetic testing results and medical society guidelines help inform medical management decisions but do not constitute formal recommendations. Discussions of medical management decisions and individualized treatment plans should be made in consultation between each patient and his or her healthcare provider, and may change over time.

SCREENING/SURGICAL CONSIDERATIONS ¹	AGE TO START	FREQUENCY		
Colorectal Cancer				
Colonoscopy	20-25 years old (or 2-5 years prior to the earliest colorectal cancer in the family, if it is diagnosed before 25 years)	Every 1-2 years^		
Consider daily aspirin to reduce future risk of colorectal cancer, including a discussion of risks and benefits.	Individualized	zed N/A		
Endometrial (Uterine) Cancer and Ovarian Cancer				
Counseling and surveillance based on family history and shared decision making are recommended. Later age of risk reducing surgery, similar to <i>PMS2</i> -related guidelines, may be appropriate.				
Urothelial Cancer				
Selected individuals such as with a family history of urothelial cancer may consider urinalysis. There is insufficient evidence to recommend a particular surveillance strategy.	30-35 years old	Every 12 months		
Gastric and Small Bowel Cancer				
Upper GI surveillance with high-quality endoscopic gastroduodenoscopy, preferably in conjunction with colonoscopy. Random biopsy of the proximal and distal stomach should at a minimum be performed on the initial procedure to assess for <i>H. pylori</i> , autoimmune gastritis, and intestinal metaplasia.	30-40 years old or earlier based on family history or high risk findings	Every 2-4 years or more frequently based on family history or high-risk findings		
Individuals not undergoing endoscopic surveillance should have one-time noninvasive testing for <i>H. pylori</i> at time of Lynch syndrome diagnosis.	Individualized	N/A		
Treatment for <i>H. pylori</i> if detected	Individualized	N/A		
Pancreatic Cancer				
For individuals with exocrine pancreatic cancer in ≥1 first-or second- degree relative on the same side of the family as the identified pathogenic/ likely pathogenic germline variant, consider pancreatic cancer screening.*	ee relative on the same side of the family as the identified pathogenic/ exocrine pancreatic cancer intervals if worrisome			
Prostate Cancer				
It is reasonable for men with Lynch syndrome to consider beginning shared decision-making about prostate cancer screening				
Breast Cancer				
Not enough evidence to support increased screening above average-risk screening recommendations or based on personal and/or family history.				
Brain Cancer				
Patients should be educated regarding signs and symptoms of neurologic cancer and the importance of prompt reporting of abnormal symptoms to their physicians.	r and the importance of prompt reporting of abnormal symptoms to Individualized Individualized			

SCREENING/SURGICAL CONSIDERATIONS ¹	AGE TO START	FREQUENCY		
Skin Manifestations				
Consider skin exam with a health care provider skilled in identifying Lynch syndrome-associated skin manifestations.	Individualized	Every 1-2 years		
Reproductive Options				
For patients of reproductive age, counsel about options for prenatal diagnosis and assisted reproduction, including pre-implantation genetic testing.	Individulized	N/A		
If both parents are carriers of a pathogenic/likely pathogenic variant in <i>EPCAM</i> , counsel for risk of a rare autosomal recessive condition called constitutional mismatch repair deficiency (CMMRD) syndrome.	Individualized	N/A		
Risk to Relatives				
Advise patients to tell their relatives about possible inherited cancer risk, options for risk assessment, and management.	Individulized N/A	N/A		
Recommend genetic counseling and consideration of genetic testing for at-risk relatives.				

Individuals who may benefit from a shorter screening interval (ie, 1-year vs 2-year) include those with risk factors such as a history of colorectal cancer or adenoma, male sex, and age over 40 years.

* For individuals considering pancreatic cancer screening, the Guidelines recommends that screening be performed in experienced high-volume centers. The Guidelines recommends that such screening only take place after an in-depth discussion about the potential limitations to screening, including cost, the high incidence of benign or intermediate pancreatic abnormalities, and uncertainties about the potential benefits of pancreatic cancer screening. The guideline recommends that screening be considered using annual contrast-enhanced MRI/MRCP and/or EUS, with consideration of shorter screening intervals for individuals found to have worrisome abnormalities on screening. The guideline emphasizes that most small cystic lesions found on screening will not warrant biopsy, surgical resection, or any other intervention.

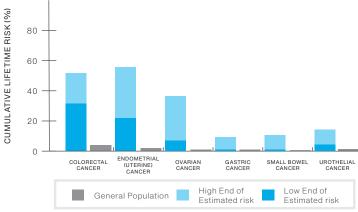
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Understanding Your Positive *EPCAM* Genetic Test Result INFORMATION FOR PATIENTS WITH A PATHOGENIC OR LIKELY PATHOGENIC VARIANT

6 Things To Know

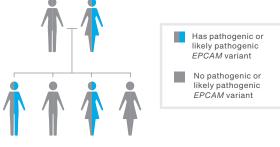
1	Result	Your testing shows that you have a pathogenic or likely pathogenic variant the EPCAM gene.
2	Lynch syndrome	People with pathogenic or likely pathogenic <i>EPCAM</i> variants have Lynch syndrome, previously known as hereditary non-polyposis colorectal cancer (HNPCC).
3	Cancer risks	You have an increased chance to develop colorectal, endometrial/uterine, stomach, ovarian, small bowel, and other types of cancer.
4	What you can do	Risk management decisions are very personal. There are options to detect cancer early or lower the risk to develop cancer. It is important to discuss these options with your healthcare provider and decide on a plan that works for you.
5	Other Medical Concerns	Individuals with pathogenic or likely pathogenic <i>EPCAM</i> variants may have an increased risk to have a child with constitutional mismatch repair deficiency (CMMRD), but only if their partner also carries a pathogenic or likely pathogenic variant in the <i>EPCAM</i> gene. CMMRD is a multisystem disorder characterized by specific physical features and an increased risk for hematologic malignancies, brain tumors, and early-onset Lynch syndrome-associated cancers.
6	Family	Family members may also be at risk – they can be tested for the pathogenic or likely pathogenic <i>EPCAM</i> variant that was identified in you. It is recommended that you share this information with family members so they can learn more and discuss this with their healthcare providers.

EPCAM Lifetime Cancer Risks*



* Because risk estimates vary in different studies, only approximate risks are given. Cancer risks will differ based on individual and family history.

EPCAM in the Family



There is a 50/50 random chance to pass on the pathogenic

or likely pathogenic EPCAM variant to each of your children.

 AliveAndKickn (Patient Advocacy Group) aliveandkickn.org Lynch Syndrome International lynchcancers.com National Society of Genetic Counselors nsgc.org Canadian Association of Genetic Counsellors cagc-accg.ca
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Please discuss this information with your healthcare provider. The cancer genetics field is continuously evolving, so updates related to your *EPCAM* result, medical recommendations, and/or potential treatments may be available over time. This information is not meant to replace a discussion with a healthcare provider, and should not be considered or interpreted as medical advice.