

Part I: Colorectal cancer risk assessment tool to identify patients most likely to benefit from <u>referral to genetics</u>

1) Do you have a first-degree relative (mother, father,	YES	NO
brother, sister, or child) with any of the following		
conditions diagnosed before age 50?		
Colon or rectal cancer	0	
Cancer of the uterus, ovary, stomach, small		
intestine, urinary tract (kidney, ureter, bladder),		
bile ducts, pancreas, or brain	□	
2) Have <b>you</b> had any of the following conditions diagnosed before age 50?		
Colon or rectal cancer	□	
Colon or rectal polyps	0	
3) Do you have three or more relatives with a history of		
colon or rectal cancer?		
(this includes parents, brothers, sister, children,		_
grandparents, aunts, uncles, and cousins])	<b></b>	

The cumulative sensitivity of these three questions to identify patients with characteristics suggestive of hereditary colorectal and who should undergo a more extensive risk assessment is 77%. When all 3 questions were answered "yes", the tool correctly identified 95% of individuals with germline mutations causing Lynch syndrome. If a patient answers "yes" to all of these questions a referral to genetics should be offered. If a patient answers "yes" to any of these questions, consider further assessment using the criteria in Part II.

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Part II: Red Flags to identify patients **at high risk** of **Lynch Syndrome** most likely to benefit from <u>referral to genetics</u>

Personal History LS Red Flags	Family History LS Red Flags						
<ul> <li>Consider referring your patient if he/she has:</li> <li>Colorectal cancer (CRC) diagnosis at an early age (&lt;50 years). Higher suspicion of LS if diagnosed &lt;35 years.</li> <li>Endometrial cancer diagnosis at an early age (&lt;50 years)</li> <li>Multiple primary LS-related cancer diagnoses, regardless of age</li> <li>A CRC diagnosis <u>and</u> one or more 1st degree relatives with a LS-related cancer, with one of the cancers diagnosed &lt;50 years</li> <li>A CRC diagnosis <u>and</u> two or more 1st or 2nd degree relatives with LS- related cancers regardless of age</li> <li>A CRC diagnosis &lt;60 years and histological features suspicious for LS*(excess infiltrating lymphocytes, mucinous/signet cell features, Crohn's-like reaction), particularly when primary tumour is right sided</li> </ul>	Consider referring your patient if he/she: <ul> <li>Has a known LS causing mutation in the family</li> <li>Meets the revised Amsterdam criteria, meaning he/she has at least three relatives with a cancer associated with LS (Box 1). The following criteria should also be present:</li> <li>One must be a first degree relative of the other two;</li> <li>At least two successive generations must be affected (autosomal dominant inheritance);</li> <li>At least one relative with LS-related cancer should be diagnosed before age 50;</li> <li>Tumour pathology should be verified when possible and other CRC syndromes should be ruled out</li> </ul>						
LS is the abbreviation for Lynch syndrome							

	Box 1: Lynch Syndrome-related cancers										
$\checkmark$	Colorectal	$\checkmark$	Endometrial	$\checkmark$	Kidney	$\checkmark$	Gastric	$\checkmark$	Ovarian 🗸 Ureter		
$\checkmark$	Small bowel	$\checkmark$	Hepato-biliary	$\checkmark$	Pancreatic	$\checkmark$	Brain	$\checkmark$	Sebaceous (adenoma or carcinoma)		
	For more information on Lynch Syndrome such as screening recommendations see the complete <u>GEC-KO Messenger</u> at										

www.geneticseducation.ca



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