GECKO
Genetics Education Canada: Knowledge Organization
Centre d'éducation en génétique canadien: Connaissances organisées
POINT OF CARE TOOL

LYNCH SYNDROME TOOL TO IDENTIFY INDIVIDUALS MOST LIKELY TO BENEFIT FROM REFERRAL TO GENETICS

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Lynch syndrome is a common (1/279) autosomal dominant hereditary cancer predisposition syndrome. LS is associated with an increased lifetime risk for colorectal and endometrial cancers and the cancers below. The actual cancer risk depends on which LS-associated gene contains a pathogenic or likely pathogenic variant. Cancer screening and risk reduction recommendations are affected by genetic test results.

Lynch syndrome(LS)-associated cancers

Colorectal **Endometrium**

Ovary **Stomach** **Small bowel** **Urothelial** **Biliary tract**

Brain (usually glioblastoma) **Renal pelvis** **Pancreas**

Skin (sebaceous adenoma or carcinoma, keratoacanthoma)

Sarcoma **Adrenal cortical carcinoma**

1

Does the individual have personal history of:

- LS-associated cancer diagnosed under the age of 50
- Colorectal or Endometrial cancer at any age AND a family history of a blood relative with a LS-associated cancer, where at least one diagnosis is under the age of 50
- Colorectal or Endometrial cancer at any age AND two or more blood relatives on the same side of the family with LS-associated cancer at any age
- Multiple LS-associated cancers

In general, the best and most informative person in a family in whom to begin genetic testing and assessment is the person most likely to have the genetic condition. This is usually the youngest person diagnosed with a LS-associated cancer.

If no person who meets the criteria above is available for a genetic assessment, close relatives may be considered.

2

Does a validated risk calculator (e.g. PREMM5), calculate the individual's chance to carry a change in a LS-associated gene as greater than or equal to 5%?

PREMM5 MODEL

If there is a "yes" answer to any of the questions above, consider referral for a genetic assessment at your local Genetics Centre/Hereditary Cancer Program.

Many Canadian provinces have automatic *(reflex) tumor screening* programs on certain, new LS-associated cancers. To learn more about tumor screening, see the GECKO deep dive.

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