

Figure 2. Selecting a Hereditary Cancer Genetic Test

Known familial mutation

Select single gene (or single site) test specific for the familial mutation

High-risk personal or family history; no known familial mutation

History suggests single syndrome

Select test specific for single syndrome:

- *BRCA*-related breast and/or ovarian cancer syndrome
 - BRCAVantage®, Comprehensive (91863) includes *BRCA1* and *BRCA2*
 - BRCAVantage®, Ashkenazi Jewish Screen with Reflex to BRCAVantage, Comprehensive (92140) includes the 3 founder mutations with a reflex to *BRCA1* and *BRCA2*
- Lynch syndrome, tumor tissue available (affected individual)
 - MSI (14989)
 - Lynch Syndrome Tumor Panel, IHC (91332 or 91333) includes *MLH1*, *MSH2*, *MSH6*, and *PMS2* protein expression
- Lynch syndrome, tumor tissue unavailable (affected or unaffected individual)
 - Lynch Syndrome Panel (91461) includes *MLH1*, *MSH2*, *EPCAM*, *MSH6*, and *PMS2* genes
- Additional syndromes: see [Table 3](#)

History consistent with >1 syndrome

or

single syndrome test negative and strong suspicion of hereditary cancer remains

Select 1 of the following tests:

- Glvantage™: includes 13 genes predominantly associated with gastrointestinal cancers
- MYvantage™: includes 34 genes associated with a broad spectrum of hereditary cancers

This figure was developed by Quest Diagnostics based in part on references 2 and 4. It is provided for informational purposes only and is not intended as medical advice. A physician's test selection and interpretation, diagnosis, and patient management decisions should be based on his/her education, clinical expertise, and assessment of the patient.