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

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

Select 1 of the following tests:

- GIvantage™: 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.