Hereditary Familial Cutaneous Melanoma Risk Panel (2 genes)

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**Indication:**
Hereditary cancer syndrome is a genetic predisposition to develop certain types of cancers, often at an early age. Hereditary cancer risk assessment is performed to identify patients and families who may be at risk.

Clues that a hereditary cancer syndrome may be present include the following:
- Cancer diagnosed at an unusually young age
- Several different types of cancer in the same person
- Multiple primary tumors
- Several close blood relatives that have the same type of cancer, especially when on the same side of the family
- Unusual presentation of a specific type of cancer
- The presence of birth defects that are known to be associated with inherited cancer syndromes
- Occurrence of certain types of adult cancer in which the probability of harboring a hereditary cancer syndrome is high (ie. triple negative breast cancer; ovarian, tubal or peritoneal cancer; colorectal cancer or endometrial cancer with DNA mismatch repair deficiency)
  (Lu et al. 2014)

**Testing method:** Next Generation Sequencing (NGS) for whole gene analysis of single base pair (point) mutations and small (<25bp) deletions and duplications. The TruSight Cancer Sequencing Panel targets 94 genes suspected to play a role in predisposing to cancer, including genes associated with both common (eg, breast, colorectal) and rare cancers. In addition, the panel includes 284 SNPs suspected to be associated with cancer through genome-wide association studies (GWAS). Content selection was based on expert curation of the scientific literature and other high-quality resources. The assay provides coverage of exonic and noncoding DNA in exon-flanking regions, on average 50 bp.

**Turnaround time:** 7-10 business days

**Sample Requirements:** 3 ml peripheral blood in EDTA (lavender) top tube

Specimen stability: Ambient - 72 hours; Refrigerated - 1 week

**CPT codes:** 81403, 81404

**References:**

Familial Malignant Melanoma. http:www.cancer.net/cancer-types/familial-malignant-melanoma


