Checklist for Cancer Genetics Evaluation

Plan:
- Refer for genetic evaluation
- Genetic testing for ____________________________
- Test affected family member
- Declines testing
- Increased screening measures:
  1. ____________________________
  2. ____________________________
  3. ____________________________

Date completed/updated

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Directions: Evaluate cancer history on both sides of the family and include:

- Patient’s cancer history
- First degree relatives (parents, siblings, children)
- Second degree relatives (aunts/uncles, nieces/nephews, grandparents), AND
- Third degree relatives (cousins)

Refer patients who have cancer or a family history of cancer (on the same side of family)

- **Lynch Syndrome (Hereditary Nonpolyposis Colorectal Cancer)**
  - Mutation in *MLH1*, *MSH2*, *MSH6*, *PMS2*
  - Colon cancer < 50
  - Endometrial cancer < 50
  - ≥ 2 Lynch tumors* in one person (any age)
  - ≥ 2 Lynch tumors in family, one <50
  - ≥ 3 Lynch tumors in family (any age)
  - MSI-H and/or IHC positive tumor

*Includes colorectal, endometrial, stomach, ovarian, pancreas, ureter and renal pelvis, biliary tract, brain, sebaceous gland, small bowel cancer

- **Hereditary Colorectal Polyposis**
  - Mutation in *APC* or *MYH* genes
  - ≥ 10 to 20 accumulated colorectal polyps
  - Family history of polyposis

- **Hereditary Breast Ovarian Cancer**
  - Mutation in *BRCA1* or *BRCA2* genes
  - Personal hx of breast cancer IF
    - ≤ 40 OR
    - Ashkenazi Jewish (any age)
  - 2 people with breast cancer IF
    - ≥ 1 diagnosed ≤ 50 OR
    - ≥ 1 male breast cancer OR
    - ≥ 1 with multiple primary foci
    - 3 people with breast cancer (any age)
  - Breast and ovarian ca in person or family
  - Personal history of ovarian cancer

Combination of the following:
- Breast, thyroid, renal, endometrial
- Breast, sarcoma, adrenal cortical, leukemia, brain, other
- Breast, ovarian (sex cord with annular tubules), GI cancer/polyps
- Lobular breast and diffuse gastric ca

- **Melanoma**
  - Mutation in *CDKN2A* gene
  - multiple primary melanomas
  - > 2 people melanoma and/or pancreatic ca

- **Multiple Endocrine Neoplasias**
  - Mutation in *MEN1* or *RET* genes
  - ≥ 2 of the following (patient and/or family):
    - Pancreatic (islet cell) cancer
    - Parathyroid hyperplasia
    - Pituitary adenoma
  - ≥ 1 Medullary thyroid cancer (any age)
  - ≥ 1 Pheochromocytoma

- **Familial Renal Cancer**
  - Familial mutation in *VHL* or other renal cancer susceptibility gene
  - Bilateral or multiple primary renal cancer
  - ≥ 2 with renal cancer
  - ≥ 1 with renal cancer AND:
    - Multiple renal cysts OR
    - Hemangioblastoma OR
    - Pheochromocytoma OR
    - Pancreatic tumors/cysts OR
    - Multiple bilateral lung cysts OR
    - Spontaneous pneumothorax
  - Rare renal tumors: renal oncocytoma, chromophobe, oncocytic hybrid tumor

- **Miscellaneous**
  - Single case of rare tumor
  - 3 or more cases of:
    - Brain tumor
    - Hematological malignancy
    - Prostate cancer
    - Lung cancer
    - Non-medullary thyroid cancer
    - Pancreatic cancer
    - Sarcoma
    - Stomach cancer

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Adapted with permission from the Ohio Department of Health