Criteria for Referral for Cancer Genetics Evaluation

***Directions*: Evaluate cancer history on **both** sides of the family history. Include:**

- Patient's cancer history
- First degree relatives (parents, siblings, children)
- Second degree relatives (aunts, uncles, nieces, nephews, grandparents) and
- Third degree relatives (cousins, great-grandparents, great-aunts and uncles).

Refer patients who have cancer in their personal or family history on the same side who meet any of the following criteria.

Breast and Ovarian Cancer

- ☐ Personal or family history of mutation in cancer susceptibility gene
- ☐ 1 person with breast cancer **if**
  - diagnosed ≤ age 50 **or**
  - Ashkenazi Jewish **or**
  - 2 breast primaries **or**
  - Triple negative breast cancer **or**
  - Male breast cancer **or**
  - Known gene mutation in family
  - Personal or family history of *any of the following cancers:* ovarian, pancreatic, prostate, sarcoma, adrenocortical, brain, endometrial, thyroid, leukemia, lymphoma, diffuse gastric
- ☐ 2 people on same side of family with breast cancer
- ☐ 1 person with ovarian cancer

Melanoma

- ☐ Personal or family history of mutation in cancer susceptibility gene
- ☐ ≥2 people on the same side of the family with melanoma and/or pancreatic cancer

Colorectal and Endometrial Cancers

- ☐ Personal or family history of mutation in cancer susceptibility gene
- ☐ 1 person with endometrial cancer **if**
  - diagnosed ≤ age 50 **or**
  - personal or family history of Lynch syndrome cancers* **or**
  - positive tumor testing for Lynch syndrome
- ☐ 1 person with colorectal cancer **if**
  - diagnosed ≤ age 50 **or**
  - **≥** 10 adenomas **or**
  - polyposis or multiple hamartomas **or**
  - personal or family history of Lynch syndrome cancers* **or**
  - personal or family history of desmoids **or**
  - positive tumor testing for Lynch syndrome
- ☐ 2 Lynch syndrome cancers* in one person, one diagnosed < age 50
- ☐ 2 Lynch syndrome cancers* on same side of family, one diagnosed < age 50
- ☐ 3 Lynch syndrome cancers* on same side of family (any age)
- ☐ person with 10 or more colorectal adenomas

***Lynch syndrome cancers**=
colorectal, endometrial, stomach, ovarian, pancreatic, ureter, renal pelvis, biliary tract, brain, small bowel cancer, or sebaceous adenoma/carcinoma

Endocrine Cancers

- ☐ Personal or family history of mutation in cancer susceptibility gene
- ☐ Personal or family history of 1 person with ANY of the following:
  - medullary thyroid cancer
  - pheochromocytoma
  - paraganglioma
  - carotid body tumor
  - adrenalcortical carcinoma
- ☐ 2 or more tumors associated with Multiple Endocrine Neoplasia, type 1 in one person OR on same side of the family:
  - parathyroid hyperplasia
  - pancreatic islet neuroendocrine
  - pituitary
- ☐ 2 people on same side of family with thyroid cancer, breast cancer, renal or endometrial cancer

Pancreatic Cancer

- ☐ Personal or family history of mutation in cancer susceptibility gene
- ☐ 2 people on same side of family with pancreatic cancer
- ☐ 1 person with pancreatic cancer AND personal or family history of melanoma, breast, ovarian, colon cancers

Gastric Cancer

- ☐ Personal or family history of mutation in cancer susceptibility gene
- ☐ 1 person with diffuse gastric cancer **if**
  - diagnosed ≤ age 50 **or**
  - personal or family history of lobular breast cancer or colon cancer
- ☐ 2 people on the same side of the family with diffuse gastric cancer

Familial Renal Cancer

- ☐ Personal or family history of mutation in cancer susceptibility gene
- ☐ 1 person with kidney cancer **if**
  - Early age of onset **or**
  - multifocal or bilateral disease **or**
  - chromophobe or oncocytic pathology **or**
- ☐ 1 with renal cancer and personal or family history of:
  - uterine fibroids
  - cutaneous leiomyoma
  - thyroid or breast cancer
  - hemangioblastoma
  - pheochromocytoma
  - spontaneous pneumothorax
  - fibrofolliculoma
- ☐ ≥2 with renal cancer

Single Case of:

- ☐ Adrenocortical carcinoma
- ☐ Retinoblastoma
- ☐ Wilms tumor (bilateral)
- ☐ Pheochromocytoma
- ☐ Medullary thyroid cancer
- ☐ Paraganglioma or carotid body tumors
- ☐ Hepatoblastoma
- ☐ Hemangioblastoma of brain or spine
- ☐ Pleuropulmonary blastoma
- ☐ Choroid plexus carcinoma
- ☐ Pediatric rhabdoid tumor: kidney or brain
- ☐ Optic glioma

For More Information — Ohio Cancer Risk Assessment

— Akron —

Akron Children's Hospital
Genetic Cancer Program: **330-543-8792**
www.akronchildrens.org/hereditarycancer

— Canton —

Aultman Hospital
Cancer Genetics Program: **330-363-4363**
www.aultman.com

— Cincinnati —

Cincinnati Children's Hospital Medical Center
Hereditary Cancer Program: **513-636-4760**
http://bit.ly/171eEbW

Tri Health Institute
Cancer Genetics Program: **513-865-5578**
http://bit.ly/15fKZ1C

— Cleveland —

Cleveland Clinic, Center for Personalized Genetic Healthcare: **216-445-5686**
http://bit.ly/17vhPHJ

Hillcrest Hospital
Cancer Program: **440-312-5634**
www.hillcresthospital.org

MetroHealth Medical Center
Hereditary Cancer Clinic: **216-778-4323**
http://bit.ly/13JM6S2

University Hospital Center for Human Genetics
Cancer Genetics Clinic: **216-844-3936**
http://bit.ly/190DFpS

— Columbus —

Mount Carmel Health System
Cancer Risk Program: **614-546-4330**
http://bit.ly/191dhfE

OhioHealth Genetics Counseling: **614-566-4363**
www.ohiohealthcancercare.com

Nationwide Children's Hospital
Hemotology/Oncology/BMT Genetics Program: **614-722-3695**
http://bit.ly/mJCHkO

The Ohio State University James Cancer Hospital and Solove Research Institute
Clinical Cancer Genetics Program: **614-293-6694** or **888-329-1654**
http://bit.ly/1b8Xufi

— Dayton —

Dayton Children's—The Children's Medical Center
Cancer Genetics Program: **937-641-3800**
http://bit.ly/19KGQou

Miami Valley Hospital
Cancer Genetics Services: **937-438-3830**
http://bit.ly/13CXNgV

— Toledo —

Mercy St. Vincent Medical Center
Hereditary Cancer Program: **419-383-3727**
www.mercyweb.org/childrens_genetics.aspx

ProMedica Cancer Institute, Hickman Cancer Center at Flower Hospital: **419-824-1952**
www.promedica.org/cancergenetics

— Youngstown —

Akron Children's Hospital, Boardman Medical Pavilion,
Cancer Genetics Program: **330-729-1145**
http://bit.ly/14ggUgF

Resources for Family History Collection

US Surgeon General www.hhs.gov/familyhistory
American Medical Association http://www.ama-assn.org/ama/pub/category/2380.html
March of Dimes http://www.marchofdimes.com/pnhec/4439_1109.asp
National Society of Genetic Counselors http://www.nsgc.org/consumer/familytree/index.cfm

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