

For information about cancer genetics, cancer genetic counseling, or for
referral resources in your area, visit the NSGC website at:
<http://www.nsgc.org/providers/cancer/index.cfm>

Or contact the National Society of Genetic Counselors at: 312.321.6834
Email: nsgc@nsgc.org

Indications for Referral for Cancer Genetics Consultation

- Note: 1) Cancer cases must all be on the same side of the family
2) FDR = first degree relative (parents, siblings, children)
3) SDR = second degree relative (grandparents, grandchildren, aunts, uncles)

Hereditary Breast and Ovarian Cancer Syndrome

One or more of the following:

- Breast cancer at age 50 or younger
- Ovarian cancer at any age in patient or FDR
- Breast and ovarian cancer at any age in patient or FDR
- Two or more breast primaries in patient or FDR
- 2 or more cases of breast cancer in FDRs or SDRs if 1 is < age 50 or bilateral
- 3 or more cases of breast or ovarian cancer in FDRs and SDRs at any age
- Male breast cancer at any age
- Ashkenazi Jewish ancestry and any of the following:
 - Breast cancer < age 50
 - Ovarian cancer or male breast cancer at any age
 - 2 or more cases of breast cancer and/or ovarian cancer in FDRs or SDRs
- BRCA1 or BRCA2 mutation identified in family

Lynch Syndrome (aka Hereditary Non-polyposis Colorectal Cancer HNPCC)

One or more of the following:

- Colorectal cancer < age 50
 - Endometrial cancer < age 50
 - 3 FDRs or SDRs affected with any HNPCC associated cancer* All cases can occur in 1 generation; no age restriction
 - 2 or more HNPCC-associated primary cancers* in a single FDR or SDR
 - Immunohistochemistry (IHC) for mismatch repair proteins (MLH1, MSH2, MSH6, PMS2) demonstrating absence of one or more proteins in tumor
 - Microsatellite instability (MSI) in HNPCC-associated* tumor
 - MLH1, MSH2, MSH6, or PMS2 gene mutation identified in family
- *colorectal, endometrial, stomach, ovary, small bowel, pancreas, ureter or renal pelvis

Polyposis

- 10 or more colorectal polyps of any histology

Hereditary Prostate Cancer

Any of the following:

- 3 FDRs or SDRs with prostate cancer at any age
- 2 FDRs or SDRs with prostate cancer if 1 case is <60

Hereditary Melanoma

Any of the following:

- 3 FDRs or SDRs affected with melanoma or pancreatic cancer (must include more than one case of melanoma)
- Multiple primary melanomas in one person

Li-Fraumeni Syndrome

All of the following criteria:

- Sarcoma, brain, or adrenal cancer before 45; AND
- 1 FDR or SDR with sarcoma, breast, brain, adrenal or leukemia at any age; AND
- 1 FDR or SDR with any cancer before 60

Multiple Endocrine Neoplasia/Thyroid Cancer

High Risk for MEN 1

- 2 cases of pancreatic (islet cell) cancer, parathyroid (hyperplasia) and/or pituitary adenoma in FDRs or SDRs (or a single person with 2 or more of these features)

High Risk for MEN 2

- 2 cases of medullary thyroid cancer in FDRs or SDRs
- Medullary thyroid cancer with 1 FDR or SDR with parathyroid hyperplasia or pheochromocytoma (or a single person with 2 or more of these features)

Other

Cluster of Cancers

- 3 cases of the following cancers in FDR/SDR on same side of the family: bladder, brain, esophageal, kidney, lung, mouth or throat, multiple myeloma, pancreatic, sarcoma, stomach, thyroid, testicular

Hematologic Cancers

- 3 FDRs or SDRs with any of the following: Hodgkin's disease, non-Hodgkin's lymphoma, or leukemia

A single case of:

- Medullary thyroid cancer, adrenocortical carcinoma, pheochromocytoma, paraganglioma, Wilms tumor, or retinoblastoma



national society
of genetic
counselors, inc.

A publication of the National Society of Genetic Counselors

©2009. National Society of Genetic Counselors.

All Rights Reserved.