Genetic Counseling for Cancer Risk – Indications for Referral

Hereditary Breast Ovarian Cancer Syndrome (BRCA1/BRCA2)	Hereditary Non-Polyposis Colon Cancer (HNPCC)
(BRCA1/BRCA2) Any personal or family history of: Breast Cancer • diagnosed before age 45 • in 2 or more close relatives • bilateral breast cancer • male breast cancer Breast and Ovarian Cancer • both cancers in the same woman • one of each cancer diagnosed in two close relatives Ovarian Cancer • diagnosed at any age In Ashkenazi Jewish families: Breast Cancer • diagnosed before age 60 • diagnosed at any age if any additional family history of	 Hereditary Non-Polyposis Colon Cancer (HNPCC) Any family that meets the following criteria: Amsterdam II Criteria (the 3-2-1 rule) – must meet all criteria: 3 or more relatives with an HNPCC-associated cancer¹ (one has to be a first-degree relative of the other two) 2 successive generations are affected 1 HNPCC-associated cancer diagnosed before age 50 Bethesda Criteria – only need to meet one criterion: colorectal cancer diagnosed before age 50 presence of synchronous or metachronous HNPCC-associated tumors,² regardless of age colorectal cancer with MSI-high histology diagnosed before age 60 colorectal cancer diagnosed in a patient with 1 or more first-degree relatives with an HNPCC-associated tumor, with one of the cancers being diagnosed before age 50 colorectal cancer diagnosed in a patient with 2 or more first-or second-degree relatives with HNPCC-associated
breast or ovarian cancer Ovarian Cancer ♦ diagnosed at any age	 colorectal cancer, cancer of the endometrium, small bowel, ureter or renal pelvis colorectal cancer, cancer of the endometrium, small bowel, stomach, ovary, pancreas, ureter and renal pelvis, biliary tract and brain (usually glioblastoma), as well as sebaceous gland adenomas and keratoachanthomas
Li-Fraumeni Syndrome	
 Two close relatives with one or more of the following types of neoplasms: soft tissue sarcoma early onset breast cancer acute leukemia osteosarcoma adrenocortical tumor brain tumor 	Adenomatous Polyposis Syndromes (FAP, AFAP and MAP) Any person with a total of 10 or more adenomatous polyps of the colon and/ or rectum with or without a family history of colorectal cancer Multiple Endocrine Neoplasia, Type 1 (MEN1) Any personal or family history of parathyroid hyperplasia
	plus pituitary tumors and/or pancreatic tumors
Cowden Syndrome	Multiple Endocrine Neoplasia, Type 2 (MEN2)
Six or more characteristic mucocutaneous lesions (facial trichilemmomas, acral keratoses, papillomatous papules, mucosal lesions) -or-	Any personal or family history of medullary thyroid cancer, with or without other features of MEN2 including: parathyroid hyperplasia, pheochromocytoma, marfanoid habitus, ganglioneuromatosis and mucosal neuromas
A strong personal and/or family history that includes:	
 breast cancer non-medullary thyroid cancer endometrial carcincoma macrocephaly Lhermitte-Duclos disease (LDD) benign breast disease or thyroid lesions gastrointestinal hamartomas mental retardation 	 Hereditary Melanoma Any individual with: a family history of melanoma in two or more close relatives with or without a family history of pancreatic cancer a personal history of multiple primary melanomas dysplastic nevi and a family history of melanoma with or without a history of pancreatic cancer
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