

### ***Pancreatic Cancer***

#### ***For your patients with cancer***

- Pancreatic cancer diagnosis with any of the following:
  - ◇ >2 cases of pancreatic cancer in close relatives\*
  - ◇ > 2 cases of breast, ovarian, and/or aggressive prostate cancer
  - ◇ Ashkenazi Jewish ancestry
  - ◇ Pancreatic cancer and >2 additional cases of Lynch syndrome related cancers in the same person or close relatives\*
  - ◇ Pancreatic cancer and melanoma in the same person

#### ***For your patients NOT affected with cancer***

- Close blood relative\* who meets any of the above criteria
- Blood relative with known mutation in a cancer predisposition gene

\* Close relative = 1st or 2nd degree relative (brothers, sisters, parents, children; aunts, uncles, grandparents, half-brothers, half-sisters, nieces, nephews)

### ***Rare Tumors/Cancer***

***Having a personal history or a 1<sup>st</sup> degree relative by itself warrants a referral:***

- Adrenocortical tumor
- Adenoma malignum of cervix
- Desmoid tumor
- Endolymphatic sac tumor
- Gastrinoma
- Hemangioblastoma
- Medullary thyroid carcinoma
- Ovarian sex cord tumor with annular tubules
- Ovarian small cell carcinoma, hypercalcemic type
- Parathyroid adenoma diagnosed <30 years or parathyroid adenoma with multiple glands involved
- Pheochromocytoma or paraganglioma
- Primary pigmented nodular adrenocortical dysplasia
- Retinoblastoma
- Rhabdoid tumors
- Sarcoma (non-Ewing) diagnosed <18
- Sertoli cell tumor

\*\*\*\*\*

This publication was supported in part by the Centers for Disease Control and Prevention. Rev. 02/16. For current guidelines, visit [www. NCCN.org](http://www.NCCN.org).

**Cancer-Specific Risk Factors  
for Genetic Counseling  
and Testing**



### ***Pancreatic Cancer***

#### ***For your patients with cancer***

- Pancreatic cancer diagnosis with any of the following:
  - ◇ >2 cases of pancreatic cancer in close relatives\*
  - ◇ > 2 cases of breast, ovarian, and/or aggressive prostate cancer
  - ◇ Ashkenazi Jewish ancestry
  - ◇ Pancreatic cancer and >2 additional cases of Lynch syndrome related cancers in the same person or close relatives\*
  - ◇ Pancreatic cancer and melanoma in the same person

#### ***For your patients NOT affected with cancer***

- Close blood relative\* who meets any of the above criteria
- Blood relative with known mutation in a cancer predisposition gene

\* Close relative = 1st or 2nd degree relative (brothers, sisters, parents, children; aunts, uncles, grandparents, half-brothers, half-sisters, nieces, nephews)

### ***Rare Tumors/Cancer***

***Having a personal history or a 1<sup>st</sup> degree relative by itself warrants a referral:***

- Adrenocortical tumor
- Adenoma malignum of cervix
- Desmoid tumor
- Endolymphatic sac tumor
- Gastrinoma
- Hemangioblastoma
- Medullary thyroid carcinoma
- Ovarian sex cord tumor with annular tubules
- Ovarian small cell carcinoma, hypercalcemic type
- Parathyroid adenoma diagnosed <30 years or parathyroid adenoma with multiple glands involved
- Pheochromocytoma or paraganglioma
- Primary pigmented nodular adrenocortical dysplasia
- Retinoblastoma
- Rhabdoid tumors
- Sarcoma (non-Ewing) diagnosed <18
- Sertoli cell tumor

\*\*\*\*\*

This publication was supported in part by the Centers for Disease Control and Prevention. Rev. 02/16. For current guidelines, visit [www. NCCN.org](http://www.NCCN.org).

**Cancer-Specific Risk Factors  
for Genetic Counseling  
and Testing**



### **Breast Cancer**

#### For your patients with cancer

- A female with breast cancer  $\leq 50$
- Triple negative breast cancer at  $\leq 60$
- $\geq 2$  primary breast cancers in the same person
- Breast cancer at any age with any of the following:
  - ◊  $\geq 2$  close (1<sup>st</sup> or 2<sup>nd</sup> degree) blood relatives with breast cancer at any age
  - ◊  $\geq 1$  close relatives\* with ovarian cancer
  - ◊  $\geq 2$  close relatives\* with pancreatic or prostate cancer (Gleason score  $>7$ )
  - ◊ A close male relative with breast cancer
  - ◊ Ashkenazi Jewish ancestry
  - ◊ Relative with a mutation in a breast cancer predisposition gene
- A male with breast cancer at any age
- Lobular breast cancer and diffuse gastric cancer in the same person, or lobular breast cancer with diffuse gastric cancer in a relative, one diagnosis  $\leq 50$

#### For your patients NOT affected with cancer

- 1<sup>st</sup> or 2<sup>nd</sup> degree blood relative who meets any of the above criteria
- 3<sup>rd</sup> degree relative with breast and/or ovarian cancer with  $\geq 2$  close blood relatives\* with breast cancer and/or ovarian cancer
- Blood relative with a known mutation in a cancer predisposition gene

### **Breast Cancer**

#### For your patients with cancer

- A female with breast cancer  $\leq 50$
- Triple negative breast cancer at  $\leq 60$
- $\geq 2$  primary breast cancers in the same person
- Breast cancer at any age with any of the following:
  - ◊  $\geq 2$  close (1<sup>st</sup> or 2<sup>nd</sup> degree) blood relatives with breast cancer at any age
  - ◊  $\geq 1$  close relatives\* with ovarian cancer
  - ◊  $\geq 2$  close relatives\* with pancreatic or prostate cancer (Gleason score  $>7$ )
  - ◊ A close male relative with breast cancer
  - ◊ Ashkenazi Jewish ancestry
  - ◊ Relative with a mutation in a breast cancer predisposition gene
- A male with breast cancer at any age
- Lobular breast cancer and diffuse gastric cancer in the same person, or lobular breast cancer with diffuse gastric cancer in a relative, one diagnosis  $\leq 50$

#### For your patients NOT affected with cancer

- 1<sup>st</sup> or 2<sup>nd</sup> degree blood relative who meets any of the above criteria
- 3<sup>rd</sup> degree relative with breast and/or ovarian cancer with  $\geq 2$  close blood relatives\* with breast cancer and/or ovarian cancer
- Blood relative with a known mutation in a cancer predisposition gene

### **Gynecologic Cancer**

#### For your patients with cancer

- Ovarian, fallopian, non-epithelial ovarian, or primary peritoneal cancer at any age
- Endometrial cancer  $\leq 50$
- Endometrial cancer showing mismatch repair deficiency on tumor screening
- Endometrial cancer at any age with 1<sup>st</sup> degree relative with colorectal or endometrial cancer
- Endometrial cancer and 2 additional cases of colorectal, endometrial, ovarian, gastric, small bowel, or other Lynch syndrome cancer in blood relatives
- Synchronous or metachronous endometrial and/or colorectal cancer in the same person
- Blood relative with a known mutation in a cancer predisposition gene

#### For your patients NOT affected with cancer

- Close blood relative\* who meets any of the above criteria
- Breast and ovarian cancer on same side of family
- Ashkenazi Jewish ancestry in a person with a close relative\* with ovarian cancer
- Blood relative with known mutation in a cancer predisposition gene

### **Gynecologic Cancer**

#### For your patients with cancer

- Ovarian, fallopian, non-epithelial ovarian, or primary peritoneal cancer at any age
- Endometrial cancer  $\leq 50$
- Endometrial cancer showing mismatch repair deficiency on tumor screening
- Endometrial cancer at any age with 1<sup>st</sup> degree relative with colorectal or endometrial cancer
- Endometrial cancer and 2 additional cases of colorectal, endometrial, ovarian, gastric, small bowel, or other Lynch syndrome cancer in blood relatives
- Synchronous or metachronous endometrial and/or colorectal cancer in the same person
- Blood relative with a known mutation in a cancer predisposition gene

#### For your patients NOT affected with cancer

- Close blood relative\* who meets any of the above criteria
- Breast and ovarian cancer on same side of family
- Ashkenazi Jewish ancestry in a person with a close relative\* with ovarian cancer
- Blood relative with known mutation in a cancer predisposition gene

### **Gastrointestinal Tumors/Cancer**

#### For your patients with cancer

- Colorectal cancer  $\leq 50$
- Colorectal cancer with  $\geq 10$  adenomatous polyps in the same person
- Colorectal cancer showing mismatch repair deficiency on tumor screening
- Synchronous or metachronous colorectal and/or endometrial cancer
- Colorectal cancer and two additional cases of Lynch syndrome associated cancers (e.g., endometrial, ovarian, gastric, small bowel, pancreatic cancers, and others)
- $\geq 10$  adenomatous polyps OR multiple juvenile polyps OR multiple serrated polyps OR multiple hamartomatous polyps in the same person
- Gastric cancer in a person with at least one close blood relative\* with gastric cancer, one diagnosed at  $\leq 50$  years of age
- Diffuse gastric cancer and lobular breast cancer in the same person
- Gastric cancer with lobular breast cancer in a close relative\* at least one case  $\leq 50$
- Gastric cancer and  $\geq 2$  additional cases of Lynch syndrome associated cancers in the same person or in close relatives\*.

#### For your patients NOT affected with cancer

- Close blood relative\* who meets any of the above criteria
- Blood relative with known mutation in a cancer predisposition gene

### **Gastrointestinal Tumors/Cancer**

#### For your patients with cancer

- Colorectal cancer  $\leq 50$
- Colorectal cancer with  $\geq 10$  adenomatous polyps in the same person
- Colorectal cancer showing mismatch repair deficiency on tumor screening
- Synchronous or metachronous colorectal and/or endometrial cancer
- Colorectal cancer and two additional cases of Lynch syndrome associated cancers (e.g., endometrial, ovarian, gastric, small bowel, pancreatic cancers, and others)
- $\geq 10$  adenomatous polyps OR multiple juvenile polyps OR multiple serrated polyps OR multiple hamartomatous polyps in the same person
- Gastric cancer in a person with at least one close blood relative\* with gastric cancer, one diagnosed at  $\leq 50$  years of age
- Diffuse gastric cancer and lobular breast cancer in the same person
- Gastric cancer with lobular breast cancer in a close relative\*, at least one case  $\leq 50$
- Gastric cancer and  $\geq 2$  additional cases of Lynch syndrome associated cancers in the same person or in close relatives\*.

#### For your patients NOT affected with cancer

- Close blood relative\* who meets any of the above criteria
- Blood relative with known mutation in a cancer predisposition gene