

**BRCA1/2 TESTING CRITERIA<sup>a,b</sup>**

Meeting one or more of these criteria warrants further personalized risk assessment, genetic counseling, and often genetic testing and management. Testing of an individual without a cancer diagnosis should only be considered when an appropriate affected family member is unavailable for testing.

- Individual from a family with a known deleterious *BRCA1/BRCA2* gene mutation
- Personal history of breast cancer<sup>b</sup> + one or more of the following:
  - ▶ Diagnosed ≤45 y
  - ▶ Diagnosed ≤50 y with:
    - ◇ An additional breast cancer primary<sup>c</sup>
    - ◇ ≥1 close blood relative<sup>d</sup> with breast cancer at any age
    - ◇ ≥1 close relative with pancreatic cancer
    - ◇ ≥1 relative with prostate cancer (Gleason score ≥7 or metastatic)
    - ◇ An unknown or limited family history<sup>a</sup>
  - ▶ Diagnosed ≤60 y with:
    - ◇ Triple negative breast cancer
  - ▶ Diagnosed at any age with:
    - ◇ ≥2 close blood relatives with breast cancer, pancreatic cancer, or prostate cancer (Gleason score ≥7 or metastatic) at any age
    - ◇ ≥1 close blood relative<sup>d</sup> with breast cancer diagnosed ≤50 y
    - ◇ ≥1 close blood relative<sup>d</sup> with ovarian<sup>e</sup> carcinoma
    - ◇ A close male blood relative<sup>d</sup> with breast cancer
    - ◇ For an individual of ethnicity associated with higher mutation frequency (eg, Ashkenazi Jewish) no additional family history may be required<sup>f</sup>
- Personal history of ovarian<sup>e</sup> carcinoma
- Personal history of male breast cancer

<sup>a</sup>For further details regarding the nuances of genetic counseling and testing, see [BR/OV-A](#).

<sup>b</sup>For the purposes of these guidelines, invasive and ductal carcinoma in situ breast cancers should be included.

<sup>c</sup>Two breast cancer primaries includes bilateral (contralateral) disease or two or more clearly separate ipsilateral primary tumors either synchronously or asynchronously.

<sup>d</sup>Close blood relatives include first-, second-, and third-degree relatives on same side of family. (See [BR/OV-B](#))

- Personal history of high-grade prostate cancer (Gleason score ≥7) at any age with ≥1 close blood relative<sup>d</sup> with ovarian carcinoma at any age or breast cancer ≤50 y or two relatives with breast, pancreatic, or prostate cancer (Gleason score ≥7 or metastatic) at any age
- Personal history of metastatic prostate cancer (radiographic evidence of or biopsy-proven disease)
- Personal history of pancreatic cancer at any age with ≥1 close blood relative<sup>d</sup> with ovarian carcinoma at any age or breast cancer ≤50 y or two relatives with breast, pancreatic cancer, or prostate cancer (Gleason score ≥7 or metastatic) at any age
- Personal history of pancreatic cancer and Ashkenazi Jewish ancestry
- *BRCA1/2* pathogenic mutation detected by tumor profiling on any tumor type in the absence of germline mutation analysis
- Family history only (significant limitations of interpreting test results for an unaffected individual should be discussed):
  - ▶ First- or second-degree blood<sup>d</sup> relative meeting any of the above criteria
  - ▶ Third-degree blood<sup>d</sup> relative who has breast cancer<sup>b</sup> and/or ovarian<sup>e</sup> carcinoma and who has ≥2 close blood relatives<sup>d</sup> with breast cancer (at least one with breast cancer ≤50 y) and/or ovarian<sup>e</sup> carcinoma

<sup>e</sup>Includes fallopian tube and primary peritoneal cancers. *BRCA*-related ovarian cancers are associated with epithelial non-mucinous histology. Lynch syndrome can be associated with both nonmucinous and mucinous epithelial tumors. Be attentive for clinical evidence of Lynch syndrome (see [NCCN Guidelines for Genetic/Familial High-Risk Assessment: Colorectal](#)). Specific types of non-epithelial ovarian cancers and tumors can also be associated with other rare syndromes. Examples include an association between sex-cord tumors with annular tubules and Peutz-Jeghers syndrome or Sertoli-Leydig tumors and DICER1-related disorders.

<sup>f</sup>Testing for Ashkenazi Jewish founder-specific mutation(s) should be performed first. Comprehensive genetic testing may be considered if ancestry also includes non-Ashkenazi Jewish relatives or if other *BRCA*-related criteria are met. Founder mutations exist in other populations.

BRCA  
testing  
criteria  
met

See  
Follow-up  
([BRCA-2](#))

If BRCA  
testing  
criteria  
not met,  
consider  
testing  
for other  
hereditary  
syndromes

If criteria  
for other  
hereditary  
syndromes  
not met,  
then cancer  
screening  
as per  
[NCCN  
Screening  
Guidelines](#)

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.