

# BRCA 1 and BRCA 2 Genetic Testing

[For the list of services and procedures that need preauthorization, please refer to <u>www.mcs.com.pr</u>, go to "Comunicados a Proveedores" and click "Cartas Circulares".]

Medical Policy:	MP-LB-01-19
Original Effective Date:	August 13, 2019
Revised:	September 27, 2023
Next Revision:	September, 2024

**Related Policies:** 

- MP-LB-02-09 Genetic Testing for Adults and Children.
- <u>MP-LB-01-09</u> Gene Expression Profiling Panel for use in the Management of Breast Cancer Treatment using (Oncotype DX<sup>™</sup> Test).

This policy applies to products subscribed by the following corporations, MCS Life Insurance Company (Commercial), and MCS Advantage, Inc. (Classicare) and Medical Card System, Inc., provider's contract; unless specific contract limitations, exclusions or exceptions apply. Please refer to the member's benefit certification language for benefit availability. Managed care guidelines related to referral authorization, and precertification of inpatient hospitalization, home health, home infusion and hospice services apply subject to the aforementioned exceptions.

#### DESCRIPTION

Germline genetic testing of BRCA1 and BRCA2 is available to identify individuals at increased risk for breast and ovarian cancers, as individuals with an inherited cancer syndrome may benefit from screening and prevention strategies to reduce their risk. The prevalence of BRCA mutations in the population is estimated between 1 in 300 and 1 in 800; however, specific mutations known as "founder mutations" occur more often in populations founded by a small ancestral group, including Ashkenazi (Eastern European) Jews, French Canadians, and Icelanders. The prevalence of BRCA mutations in the Ashkenazi Jewish population is approximately 1 in 40. Three recurrent BRCA1 and BRCA2 mutations have been identified in Ashkenazi Jewish individuals (i.e., a genetically distinct population of Jewish people of eastern and central European ancestry) and make up the vast majority of BRCA mutations that occur in this population.

Mutations in the BRCA1 and BRCA2 genes are passed down in families through an autosomal dominant inheritance pattern meaning that the associated cancer predisposition can be inherited through either the mother's or father's side of the family and transmitted by a male or female. When a parent carries a BRCA mutation, there is a 50% chance of passing down the gene mutation with every pregnancy. Although the risk of inheriting the predisposition from a parent who carries a mutation is 50%, not everyone with an inherited mutation will develop cancer. The likelihood that a woman with a mutation will develop a related cancer (i.e., penetrance of a BRCA mutation) is estimated between 41% and 90% and is much lower for men. The risk of developing cancer depends on numerous variables, including the penetrance of the specific mutation, the genetic makeup of the individual, environmental risk factors, the gender of the individual and their age.

#### COVERAGE

Benefits may vary between groups and contracts. Please refer to the appropriate member certificate and subscriber agreement contract for applicable diagnostic imaging, DME, laboratory, machine tests, benefits and coverage.

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## INDICATIONS

I. Medical Card System, Inc. (MCS) considers the use of Genetic Assessment for Breast and/or Ovarian Cancer Syndrome medically necessary for the Classicare (Advantage) LOB, under the criteria established within the Medicare LCD:

Local Coverage Determination for BRCA1 and BRCA2 Genetic Testing (L36499). Please refer to the aforementioned LCD for specific details regarding coverage indications, limitations and/or medical necessity.

II. Medical Card System, Inc. (MCS) considers the use of Genetic Assessment for Breast and/or Ovarian Cancer Syndrome medically necessary in patients who meet one or more of the following criteria (Applies to the Commercial LOB <u>Only</u>):

## A. General Testing Criteria

- 1. Individuals with any blood relative with a known pathogenic or likely pathogenic variant in a cancer susceptibility gene.
- 2. Individuals meeting the criteria below but who tested negative with previous limited testing (eg, single gene and/or absent deletion duplication analysis) interested in pursuing multi-gene testing.
- 3. A pathogenic or likely pathogenic variant identified on tumor genomic testing that has clinical implications if also identified in the germline.
- 4. To aid in systemic therapy and surgical decision-making<sup>b</sup>
- 5. Individual who meets Li-Fraumeni syndrome (LFS) testing criteria or Cowden syndrome (CS)/*PTEN* hamartoma tumor syndrome (PHTS) testing criteria or Lynch syndrome (LS)
- 6. Testing *may* be considered in the following scenario (with appropriate pre-test education and access to post-test management):
  - An individual of Ashkenazi Jewish ancestry<sup>c</sup> without additional risk factors<sup>d</sup>
  - Personal history of serous endometrial cancer<sup>e</sup>

## B. Testing Criteria for High-Penetrance Breast Cancer Susceptibility Genes

- 1. Personal history of breast cancer with specific features:
  - ➤ ≤50 years of age
  - Any age:
    - ♦ Treatment indications



- To aid in systemic treatment decisions using PARP inhibitors for breast cancer in the metastatic setting<sup>j,k</sup>
- To aid in adjuvant treatment decisions with olaparib for high-risk,<sup>I</sup> HER2-negative breast cancer<sup>j</sup>
- ♦ Pathology/histology
  - Triple-negative breast cancer
  - Multiple primary breast cancers (synchronous or metachronous)<sup>m</sup>
  - Lobular breast cancer with personal or family history of diffuse gastric cancer
- ♦ Male breast cancer
- ♦ Ancestry: Ashkenazi Jewish ancestry
- ♦ Family history<sup>n</sup>
  - $\ge 1$  close blood relative<sup>o</sup> with ANY:
    - breast cancer at age ≤50
    - male breast cancer
    - ovarian cancer
    - pancreatic cancer
    - prostate cancer with metastatic,<sup>p</sup> or high- or very-high-risk group (initial Risk Stratification and Staging Workup in NCCN Guidelines for Prostate Cancer)
  - $\ge 3$  diagnoses of breast cancer and/or prostate cancer (any grade) on the same side of the family including the patient with breast cancer
- 2. Family history of cancer
  - Individuals affected with breast cancer (not meeting testing criteria listed above) or individual unaffected with a first- or second-degree blood relative meeting any of the criteria listed above (except unaffected individuals whose relatives meet criteria only for systemic therapy decisionmaking)<sup>q</sup>.
  - Individuals affected or unaffected with breast cancer who otherwise does not meet the criteria above but have a probability >5% of a BRCA1/2 pathogenic or likely pathogenic variant based on prior probability models (e.g., Tyrer-Cuzick, BRCAPro, CanRisk)<sup>r</sup>



- 3. Testing *may* be considered in the following scenarios (with appropriate pre-test education and access to post-test management):
  - a. Personal history of breast cancer <60 y not meeting any of the above criteria may approach a 2.5% probability of having a probable or likely probable variant, based on recent data.<sup>s</sup> It is cautioned that the majority of those probable variants will be in moderate penetrance genes, which are over-represented in older affected individuals, and for which data on appropriate management are often lacking. Access to an experienced genetic counseling team to discuss management options is particularly important in this setting.
  - b. Personal history of breast cancer diagnosed at any age with ≥1 close relative<sup>o</sup> with intermediate-risk prostate cancer with intraductal/cribriform histology. (see Initial Risk Stratification and Staging Workup in NCCN Guidelines for Prostate Cancer)
  - c. Individuals affected or unaffected with breast cancer who otherwise do not meet any of the above criteria but with a 2.5% %5 probability of BRCA1/2 pathogenic or likely pathogenic variant based on prior probability models (eg, Tyrer-Cuzick, BRCAPro, CanRisk)<sup>f</sup>
- Note<sup>1</sup>: Pathogenic variant (PV) A genetic alteration that increases an individual's susceptibility or predisposition to a certain disease or disorder. When such a variant (or mutation) is inherited, development of symptoms is more likely, but not certain. Also called deleterious mutation, disease-causing mutation, predisposing mutation, and susceptibility gene mutation.
- Note<sup>2</sup>: There is a low probability (<2.5%) that testing will have findings of documented high-penetrance genes in the following scenarios: a) Female diagnosed with breast cancer at age >60 years, with no close relative<sup>o</sup> with breast, ovarian, pancreatic, or prostate cancer, and b) Diagnosed with localized prostate cancer with Gleason Score <7 and no close relative<sup>o</sup> with breast, ovarian, pancreatic, or prostate cancer, or prostate cancer.
- Note<sup>a</sup>: For further details regarding the nuances of genetic counseling and testing see Principles of Cancer Risk Assessment and Counseling at the <u>National Comprehensive Cancer Network (NCCN)</u> <u>Clinical Practice Guideline in Oncology for Genetic/Familial High-Risk Assessment Breast,</u> <u>Ovarian, and Pancreatic. Version 2.2024 – September 27, 2023</u>.
- **Note<sup>b</sup>:** E.g., PARP inhibitors for ovarian cancer, prostate cancer, pancreatic cancer, and metastatic HER2-negative breast cancer; platinum therapy for prostate cancer and pancreatic cancer; and risk-reducing surgery.
- **Note<sup>c</sup>:** Testing for three founder pathogenic or likely pathogenic mutations for BRCA1/2 may be offered to individuals as early as age 18-25 years, who have one grandparent identified as of Ashkenazi Jewish ancestry, irrespective of cancer history in the family, as part of longitudinal studies. For those without access to longitudinal research studies, testing may be provided if there is access to pre-test education along with post-test counseling, additional genetic testing if indicated, and high-risk management. Testing should not be offered outside of a medical framework or clinical trial.

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- Note<sup>d</sup>: In addition to the BRCA1 and BRCA2 PV in those of Ashkenazi ancestry, there are other ancestries that demonstrate "Founder mutations." In these circumstances, the decision to test will depend on the prevalence of the PV in the local population, family history, clinical features, and age of cancer diagnosis. Some additional examples where ancestry may, along with personal and/or family history, contribute to decisions about genetic testing include the following associations: BRCA1 PV and Polish ancestry; BRCA2 PV and Icelandic ancestry; BRCA1 and BRCA2 PV in those of French Canadian ancestry; numerous BRCA1 and BRCA2 PV in those of Spanish, Mexican, and Central and South American descent; BRCA1 and BRCA2 PV and Bahamian ancestry; and BRCA1 and BRCA2 PV and Hungarian ancestry. The TP53 PV c.1010G>A (p.Arg337His) PV is seen in a subset of those of Brazilian ancestry, and CDKN2A founder c.225 243del (p.Ala76fs) in those of Dutch ancestry. While emerging data derived from populations of Asian, African, and Middle Eastern origin have documented recurring mutations in BRCA1 and BRCA2 and other genes, population allele frequency data are not yet available to inform testing individuals based solely on ancestry in the absence of personal and/or family history. The same is true for founder mutations in lower penetrance genes (e.g., CHEK2 c.1100delC in those of northern European ancestry), where family and personal history inform decisions for testing.
- **Note<sup>e</sup>:** This is a rare subtype of uterine cancer for which there is evolving evidence of an association with BRCA 1P/LP variants.
- **Note<sup>f</sup>:** Testing for pathogenic variants in other genes should take into consideration factors such as patient preferences, turnaround time, and insurance restrictions to particular labs (and thus particular panels). The prevalence of VUS increases with testing of additional genes. Individuals should have pre-test education on the challenges in managing pathogenic variants in genes associated with specific syndromes (e.g., *CDH1* and *TP53* given their expanding clinical phenotypes) in the absence of a family history typical of such syndromes (does not apply for de novo pathogenic variants). Patients should also have pre-test education regarding the uncertain clinical utility of identifying certain pathogenic variants (e.g., monoallelic *MUTYH*).
- **Note<sup>g</sup>:** Meeting one or more of these criteria warrants further personalized risk assessment, genetic counseling, and often genetic testing and management.
- **Note<sup>h</sup>:** For the purposes of this Medical Policy, invasive and ductal carcinoma in situ breast cancers should be included.
- **Note':** For personal or family history of ovarian cancer, see Section C; for pancreatic cancer, see CRIT-5 and for prostate cancer, see CRIT-6 in <u>National Comprehensive Cancer Network (NCCN) Clinical</u> <u>Practice Guideline in Oncology for Genetic/Familial High-Risk Assessment Breast, Ovarian, and</u> <u>Pancreatic Version 2.2024 – September 27, 2023</u>.
- Note<sup>J</sup>: Robson, M., et al. N Engl J Med 2017; 377:523-533. Litton, J.K., et al. N Engl J Med 2018; 379: 753-763

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- **Note<sup>k</sup>:** As indicated in the criteria, testing is recommended for all triple negative breast cancers, and these indications are specifically for PARP inhibitor eligibility
- **Note**<sup>1</sup>: The definition of high-risk disease is that used in the Phase III OlympiA trial which compared adjuvant Olaparib to placebo among BRCA1/BRCA2 carriers with high-risk disease. (Tutt, A.N.J., et al. Engl J Med 2021; 384:2394-2405). The definition includes:
  - Triple negative breast cancer treated with either:
    - adjuvant chemotherapy with axillary node-positive disease or an invasive primary tumor
       ≥2cm on pathology analysis, or
    - neoadjuvant chemotherapy with residual invasive breast cancer in the breast or resected lymph nodes.
  - Hormone receptor positive disease treated with either:
    - adjuvant chemotherapy with ≥4 positive pathologically confirmed lymph nodes, or
    - neoadjuvant chemotherapy which did not have a complete pathologic response, with a CPS+EG score of 3 or higher.
  - The CPS+EG scoring system is based on a combination of clinical and pathologic stage, estrogen receptor status and histologic grade. See <u>Neoadjuvant Therapy Outcomes</u> <u>Calculator</u> (Jeruss, J.S., et al. J Clin Oncol 2008; 26:246-252; Mittendorf, E.A., et al. J Clin Oncol 2011; 29:1956-1962). See NCCN Guidelines for Breast Cancer for further details.
- Note<sup>m</sup>: Weitzel, J.N., et al. Breast Cancer Res Treat 2021; 188:759-768
- **Note**<sup>n</sup>: Consideration of the limitations of unknown or limited family structure is indicated in those age  $\geq 51$ .
- **Note<sup>o</sup>:** Close blood relatives include first-, second-, and third-degree relatives on the same side of the family.
- Note<sup>p</sup>: Metastatic prostate cancer is biopsy-proven and/or with radiographic evidence and includes distant metastasis and regional bed or nodes. It is not a biochemical recurrence only. Prostate cancer-specific mortality should be a surrogate for metastatic disease for family history purposes.
- **Note<sup>q</sup>:** This may be extended to an affected third-degree relative if related through two male relatives (e.g., paternal grandfather's mother or sister). If the affected first-degree relative underwent genetic testing and is negative for detectable P/LP variants and there is no other family history of cancer, there is a low probability that any finding will have documented clinical utility.
- **Note<sup>r</sup>:** The approximate 5% threshold for probability of carrying *BRCA1/2* pathogenic variants is utilized because of availability of prior probability models; however, it is recognized that current model estimates vary substantially, and that different thresholds may be appropriate if other genes are included in the model utilized. If genes other *BRCA1* and *BRCA2* are to be included in models evaluating the threshold for testing, the penetrance, clinical actionability, and phenotypic features of cancers associated with P/LP variants in these genes should be considered. The panel

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encourages the development of validated models that include these parameters to determine eligibility and appropriateness for gene panel testing for inherited cancer risk. The models are only validated for *BRCA 1/2*.

- **Note<sup>s</sup>:** Kurian A, et al. JAMA 2020;323:995-997.
- Note<sup>t</sup>: For personal or family history of breast cancer, see Section B; for pancreatic cancer, see CRIT-5 and for prostate cancer, see CRIT-6 in the National Comprehensive Cancer Network (NCCN) Clinical Practice Guideline in Oncology for Genetic/Familial High-Risk Assessment Breast, Ovarian, and Pancreatic. Version 2.2024 – September 27, 2023.
- Note<sup>u</sup>: The listed genes differ in their levels of risk. See GENE-A in the National Comprehensive Cancer Network (NCCN) Clinical Practice Guideline in Oncology for Genetic/Familial High-Risk Assessment Breast, Ovarian, and Pancreatic. Version 2.2024 – September 27, 2023 for specific risks.
- Note<sup>v</sup>: BRCA-related ovarian cancers are associated with epithelial, non-mucinous histology. Lynch Syndrome (LS) can be associated with both non-mucinous and mucinous epithelial tumors. Be attentive for clinical evidence of LS (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 PJS or Sertoli-Leydig tumors and DICER1-related disorders.

## C. Testing Criteria for Ovarian Cancer Susceptibility Genes

- 1. See General Testing Criteria on Subsection A.
- 2. Personal history of epithelial ovarian cancer<sup>v</sup> (including fallopian tube cancer or peritoneal cancer) at any age
- 3. Family history of cancer only
  - An individual unaffected with ovarian cancer (with a first- or second-degree blood relative with epithelial ovarian cancer<sup>v</sup> (including fallopian tube cancer or peritoneal cancer) at any age<sup>q</sup>
  - An individual unaffected with ovarian cancer who otherwise does not meet the criteria above but has a probability >5% of a *BRCA1/2* P/LP variant based on prior probability models (eg, Tyrer-Cuzick, BRCAPro, CanRisk)<sup>r</sup>
- III. Medical Card System, Inc. (MCS) will determine the following specialists as qualified physicians to order Genetic Assessment for Breast and/or Ovarian Cancer Syndrome (Applies to the <u>Both</u> the Classicare and Commercial LOBs):
  - a. Geneticists and/or Hematologist-Oncologists
  - b. Gynecologists

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- c. Surgeons
- d. Neurologists

## LIMITATIONS (Applicable to Commercial LOB Only):

- 1. A specific test may only be performed once in a lifetime per beneficiary for inherited conditions. However, when medically reasonable and necessary, genetic testing may be done on acquired conditions such as malignancies (including separate malignancies developing at different times) as they are treated and are being followed, in order to assess response or other relevant clinical criteria. Likewise, there are situations where medical record and literature documentation are able to demonstrate that serial testing can be reasonably predicted to provide additional clinically useful information. When the record documents that this information, such as confirmed significant response to current therapy, is likely to assist in modifying treatment, serial testing can be considered reasonable and necessary and eligible for medical coverage.
- 2. Any procedures required prior to cell lysis (e.g., microdissection [CPT codes 88380 and 88381]) should be reported separately and utilization must be clearly supported based on the application and clinical utility. Such claims may be subject to prepayment medical review.
- 3. HCPCS code G0452 with modifier 26 should be used by pathologists when an interpretation of a molecular pathology test is performed. Nonphysician practitioners (e.g., PhD, scientists, etc.) are not eligible to report this code, only physicians may use/bill this code. This code should not be billed without modifier 26 since it is an interpretation code only.
- 4. Genetic testing for quality assurance purposes.
- 5. Providers are required to code to specificity. However, if CPT 81479 (unlisted molecular pathology procedure) is used the documentation must clearly identify the unique molecular pathology procedure performed. When multiple procedure codes are submitted on a claim (unique and/or unlisted) the documentation supporting each code should be easily identifiable.

## **DOCUMENTATION REQUIREMENTS:**

- a. Documentation must be adequate to verify that coverage guidelines listed above have been met. Thus, the medical record must contain documentation that the testing is expected to influence treatment of the condition toward which the testing is directed. The laboratory or billing provider must have on file the physician requisition which sets forth the diagnosis or condition (ICD-10-CM code) that warrants the test(s).
- b. The submitted medical record must support the use of the selected ICD-10-CM code(s). The submitted CPT/HCPCS code must the service performed. When the documentation does not meet the criteria for the service rendered or the documentation does not

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establish the medical necessity for the services, such services will be denied as <u>Not</u> reasonable and medically necessary.

## RATIONALE

MCS framework is designed to improve access, outcomes, and our enrollee's experience of care and to ensure all enrollees achieve their best health. This policy acts as a guideline for nursing staff in the initial screening of service requests, meticulously upholding a hierarchy that prioritizes Local Coverage Determinations (LCDs) and National Coverage Determinations (NCDs) established by the Centers for Medicare & Medicaid Services (CMS), followed by our organization's medical policy, recognized medical association guidelines, and clinical decision-making processes. It is crafted to ensure that preliminary assessments are in harmony with these layers of guidance, underscoring that all final coverage determinations strictly adhere to the relevant LCDs and NCDs, while also considering the insights from recognized medical associations and the clinical judgment of healthcare professionals (MD's and DMD's) as necessary.

#### **CODING INFORMATION**

#### **CPT® CODES (List may not be all inclusive)**

CPT <sup>®</sup> Codes	DESCRIPTION
81162	BRCA1 (BRCA1, DNA repair associated), BRCA2 (BRCA2 DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis and full duplication/deletion analysis (ie, detection of large gene rearrangements)
81163	BRCA1 (BRCA1, DNA repair associated), BRCA2 (BRCA2 DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis
81164	BRCA1 (BRCA 1, DNA repair associated), BRCA2 (BRCA2, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; full duplication/deletion analysis (ie, detection of large gene rearrangements)
81165	BRCA1 (BRCA 1, DNA repair associated), (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis
81166	BRCA1 (BRCA 1, DNA repair associated), (eg, hereditary breast and ovarian cancer) gene analysis; full duplication/deletion analysis (ie, detection of large gene rearrangements)
81167	BRCA2 (BRCA2, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; full duplication/deletion analysis (ie, detection of large gene rearrangements)
81212	BRCA1 (BRCA1, DNA repair associated), BRCA2 (BRCA2, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; 18 5delAG, 5385insC, 6174delT variants
81215	BRCA1 (BRCA1, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; known familial variant
81216	BRCA2 (BRCA2, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis

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panel, must

Cliffical Affairs	
81217	BRCA2 (BRCA2, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; known familial variant
81432	Hereditary breast cancer-related disorders (eg, hereditary breast cancer, hereditary ovarian cancer, hereditary endometrial cancer); genomic sequence analysis panel, mus include sequencing of at least 10 genes, always including BRCA1, BRCA2, CDH1, MLH1, MSH2, MSH6, PALB2, PTEN, STK11, and TP53
81433	Hereditary breast cancer-related disorders (eg, hereditary breast cancer, hereditary ovarian cancer, hereditary endometrial cancer); duplication/deletion analysis panel, must include analyses for BRCA1, BRCA2, MLH1, MSH2, AND STK11
81479	Unlisted Molecular Pathology Procedure

96040 Medical genetics and genetic counseling services, each 30 minutes face-to-face with patient/family

Current Procedural Terminology (CPT®) 2023 American Medical Association: Chicago, IL.

Note2: Do not report 81162 in conjunction with 81163, 81164, 81165, 81166, 81167, 81215, 81216, 81217, and 81432.

Note<sub>3</sub>: To report BRCA1, BRCA2 full sequence analysis and full duplication/deletion analysis on the same date of service, use 81162.

#### HCPCS CODES (List may not be all inclusive)

HCPCS <sup>®</sup> Codes	DESCRIPTION		
G0452	Molecular pathology procedure; physician interpretation and report		
S0265	Genetic counseling, under physician supervision, each 15 minutes		

2023 HCPCS LEVEL II Professional Edition® (American Medical Association).

#### ICD-10 CODES (Applies to Both Classicare and Commercial LOBs) (List may not be all inclusive)

ICD-10 Codes	DESCRIPTION	
C25.0	Malignant neoplasm of head of pancreas	
C25.1	Malignant neoplasm of body of pancreas	
C25.2	Malignant neoplasm of tail of pancreas	
C25.3	Malignant neoplasm of pancreatic duct	
C25.4	Malignant neoplasm of endocrine pancreas	
C25.7	Malignant neoplasm of other parts of pancreas	
C25.8	Malignant neoplasm of overlapping sites of pancreas	
C25.9	Malignant neoplasm of pancreas, unspecified	
C50.011	Malignant neoplasm of nipple and areola, right female breast	
C50.012	Malignant neoplasm of nipple and areola, left female breast	
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast	
C50.021	Malignant neoplasm of nipple and areola, right male breast	

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C50.022	Malignant neoplasm of nipple and areola, left male breast		
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast		
C50.111	Malignant neoplasm of central portion of right female breast		
C50.112	Malignant neoplasm of central portion of left female breast		
C50.119	Malignant neoplasm of central portion of unspecified female breast		
C50.121	Malignant neoplasm of central portion of right male breast		
C50.122	Malignant neoplasm of central portion of left male breast		
C50.129	Malignant neoplasm of central portion of unspecified male breast		
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast		
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast		
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast		
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast		
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast		
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast		
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast		
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast		
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast		
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast		
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast		
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast		
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast		
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast		
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast		
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast		
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast		
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast		
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast		
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast		
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast		
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast		
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast		
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast		
C50.611	Malignant neoplasm of axillary tail of right female breast		
C50.612	Malignant neoplasm of axillary tail of left female breast		

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C50.619	Malignant neoplasm of axillary tail of unspecified female breast		
C50.621	Malignant neoplasm of axillary tail of right male breast		
C50.622	Malignant neoplasm of axillary tail of left male breast		
C50.629	Malignant neoplasm of axillary tail of unspecified male breast		
C50.811	Malignant neoplasm of overlapping sites of right female breast		
C50.812	Malignant neoplasm of overlapping sites of left female breast		
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast		
C50.821	Malignant neoplasm of overlapping sites of right male breast		
C50.822	Malignant neoplasm of overlapping sites of left male breast		
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast		
C50.911	Malignant neoplasm of unspecified site of right female breast		
C50.912	Malignant neoplasm of unspecified site of left female breast		
C50.919	Malignant neoplasm of unspecified site of unspecified female breast		
C50.921	Malignant neoplasm of unspecified site of right male breast		
C50.922	Malignant neoplasm of unspecified site of left male breast		
C50.929	Malignant neoplasm of unspecified site of unspecified male breast		
C56.1	Malignant neoplasm of right ovary		
C56.2	Malignant neoplasm of left ovary		
C56.9	Malignant neoplasm of unspecified ovary		
C57.00	Malignant neoplasm of unspecified fallopian tube		
C57.01	Malignant neoplasm of right fallopian tube		
C57.02	Malignant neoplasm of left fallopian tube		
C61	Malignant neoplasm of prostate		
D05.00	Lobular carcinoma in situ of unspecified breast		
D05.01	Lobular carcinoma in situ of right breast		
D05.02	Lobular carcinoma in situ of left breast		
D05.10	Intraductal carcinoma in situ of unspecified breast		
D05.11	Intraductal carcinoma in situ of right breast		
D05.12	Intraductal carcinoma in situ of left breast		
D05.80	Other specified type of carcinoma in situ of unspecified breast		
D05.81	Other specified type of carcinoma in situ of right breast		
D05.82	Other specified type of carcinoma in situ of left breast		
D05.90	Unspecified type of carcinoma in situ of unspecified breast		

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D05.92	Unspecified type of carcinoma in situ of left breast	
Z85.07	Personal history of malignant neoplasm of pancreas	
Z85.3	Personal history of malignant neoplasm of breast	
Z85.43	Personal history of malignant neoplasm of ovary	
Z85.46	Personal history of malignant neoplasm of prostate	

## ICD-10 CODES For Family History (Applies to Commercial LOB Only) (List may not be all inclusive)

ICD-10 Codes	DESCRIPTION	
Z15.01	Genetic susceptibility to malignant neoplasm of breast	
Z15.02	Genetic susceptibility to malignant neoplasm of ovary	
Z15.04	Genetic susceptibility to malignant neoplasm of endometrium	
Z80.0	Family history of malignant neoplasm of digestive organs	
Z80.3	Family history of malignant neoplasm of breast	
Z80.41	Family history of malignant neoplasm of ovary	
Z80.42	Family history of malignant neoplasm of prostate	
Z80.49	Family history of malignant neoplasm of other genital organs	
Z80.8	Family history of malignant neoplasm of other organs or systems	

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DATE	ACTION	COMMENT	
August 13, 2019	Origination of Policy	Approved by the MAC Committee with recommendations.	
August 26, 2019	Revised	<ul> <li>Added Section III. Which contains the following: Medical Card System, Inc. (MCS) will determine the following specialists as qualified physicians to order Genetic Assessment for Breast and/or Ovarian Cancer Syndrome (Applies to the <u>Both</u> the Classicare and Commercial LOBs): a. Geneticists and/or Hematologist-Oncologists, b. Gynecologists, c. Surgeons and d. Neurologists. The addition of adding specific specialties to the policy was recommended by the MAC Committee and the addition of the latter two specialties is in accordance with the Provider Network Management Department.</li> </ul>	
June 19, 2020	Revised	<ul> <li>References Updated. Deleted #9.</li> <li><u>To the Indications Information Section</u>:         <ul> <li>To Section I: Updated Local Coverage Determination for BRCA1 and BRCA2 Genetic Testing (I36499) link address.</li> <li>To Section II: Deleted: BRCA1/2 pathogenic/likely pathogenic variant* detected by tumor profiling on any tumor type in the absence of germline pathogenic/likely pathogenic variant analysis. Regardless of family history, some individuals with BRCA-related cancer may benefit from genetic testing to determine eligibility for targeted treatment.</li> <li>To Section II: Deleted: An individual who does not meet the other criteria but with ≥1 first- or second-degree blood relative meeting any of the above criteria. The significant limitations of interpreting test results for an unaffected individual without a cancer diagnosis should only be considered when an appropriate affected family member is unavailable for testing. Added: For further details regarding the nuances of genetic counseling and testing see Principles of Cancer Risk Assessment and Counseling.</li> </ul> </li> </ul>	

## **POLICY HISTORY**

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To Section II Note b: Deleted: Irresponse	
	ective of degree of
relatedness. Added: Testing for path	ogenic variants in other
genes should take into consideration	n factors such as patient
preferences, turnaround time, and in	nsurance restrictions to
particular labs (and thus particular p	anels). The prevalence of
VUS increases with testing of additic	nal genes. Individuals
should have pre-test education on the	ne challenges in managing
nathogenic variants in genes associa	ted with specific syndromes
(or CDH) and TDS2 given their even	nding clinical phonotypos)
in the absence of a family bitter the	high chines phenotypes
(the absence of a farming history ty	nical of such syndromes
(does not apply for de novo patrioge	nic variants). Patients
should also have pre-test education	regarding the uncertain
clinical utility of identifying certain p	athogenic variants (eg,
monoallelic MUTYH).	
To Section II Note c: Deleted: For t	he purposes of this Medical
Policy, invasive and ductal carcine	oma in situ breast cancers
should be included. Added: Meeting	on or more of these criteria
warrants further personalized	risk assessment, genetic
counseling, and often genetic testing	and management.
To Section II Note d: Added: For the section of the section o	ne nurnoses of this Medical
Policy investive and during carried	ma in situ breast cancers
should be included	ina in situ breast cancers
To Society United at Deleted. First	t dograa ralativaa, paranta
To section in Note e. Deleted, Fits	d-degree relatives: parents,
siblings, and children; second-deg	ree relatives: grandparents,
aunts, uncles, nieces, nepnews, gra	idchildren, and half siblings;
third-degree relatives: great-grand	parents, great-aunts, great-
uncles, great-grandchildren, first c	ousins, and half aunts and
uncles.	
To Section II Note f: Deleted: Include	s fallopian tube and primary
peritoneal cancers.	
To Section II Note g: Added: A	Approximately 2% - 5% of
unselected cases of pancreatic ad	lenocarcinoma will have a
BRCA1/2 pathogenic/likely pathog	enic variant. However, the
disease is highly aggressive and the	option to test the affective
relative may not be available in the	future. Thus, there may be
significant benefit to family memb	ers in testing these patients
near the time of diagnosis. In ac	dition, increasing evidence
suggests that identification of a	BRCA 1/2 pathogenic likely
nathogenic variant may direct use	of targeted therapies for
nations with parcratic capter	of targeted therapies for
To Social II Note h: Doltadi To	sting for Ashkonazi lowish
• TO Section in Note in Deleteu.	sthegonic veriant(c) should
builder-specific participent/inkey	
be performed first. Comprenensi	e genetic testing may be
considered if ancestry also inclu	ides non-Ashkenazi Jewish
relatives or if other BRCA-related	criteria are met. Founder
pathogenic/likely pathogenic varian	s exist in other populations.
Added: Metastatic prostate cancer	s biopsy-proven and/or with
radiographic evidence and includ	es distant metastasis and
regional bed or notes. It is not a b	iochemical recurrence only.
Prostate cancer-specific mortality	should be a surrogate of
metastatic disease for family history	purposes.
To Section II Note i: Deleted:	Approximately 2%-5% of
unselected cases of pancreatic ac	lenocarcinoma will have a
BRCA1/2 pathogenic/likely pathog	enic variant. However, the
disease is highly lethal and the o	ption to test the affected
relative may not be available in the	future. Thus, there may be a
significant benefit to family memb	ers in testing these patients
near the time of diagnosis. In ac	dition, increasing evidence
suggests that identification of a	BRCA1/2 pathogenic/likely
pathogenic variant may direct us	of targeted therapies for
patients with pancreatic cancer. Ad	ded: Eg. PARP inhibitors for
ovarian cancer, prostate cancer	, pancreatic cancer, and



		motastatic HEP2 pogative breast cancer: platinum therapy for
		prostate cancer and paperoatic cancer, platinum therapy for
		prostate cancer and pancreatic cancer.
	•	To Section II Note J: Deleted: E.g., PARP inhibitors of ovarian
		cancer and metastatic HER2-negative breast cancer; platinum
		therapy for prostate cancer. Added: This may be extended to an
		affected third-degree relative if related through two male
		relatives (eg, paternal grandmother's mother or sister). If the
		affected first-degree relative underwent genetic testing and is
		negative for detectable mutations and there is no other family
		history of cancer, there is a low probability that any finding will
		have documented clinical utility. For probands with pancreatic
		cancer, only first-degree relatives should be offered testing
		unless indicated for other relatives based on additional family
		history.
	•	To Section II Note k: Deleted: The may be extended to an
		affected third-degree relative if related through two male
		relatives (e.g., paternal grandfather's mother or sister). Added:
		The approximate 5% threshold for probability of carrying BRCA
		$\frac{1}{2}$ pathogenic variants is utilized because of availability of prior
		probability models; however, it is recognized that current model
		estimates vary substantially, and that different thresholds may
		be appropriate if other genes are included in the model utilized.
		If genes other BRCA1 and BRCA2 are to be included in models
		evaluating the threshold for testing, the penetrance, clinical
		actionability, and phenotypic features of cancers associated with
		these mutations in these genes should be considered. The panel
		encourages the development of validated models that include
		these parameters to determine eligibility and appropriateness
		for gene panel testing for inherited cancer risk. The models are
		only validated for BRCA 1/2.
	•	To Section II: added Note I: Testing for three founder mutations
		for BRCA1/2 maty be offered to unaffected men and women as
		early as age 18-25 years, who have one grandparent identified
		as of Ashkenazi Jewish ancestry, irrespective of cancer history in
		the family, as part of longitudinal studies, testing may be
		provided if there is access to pre-test education along with post-
		test counseling, additional genetic testing if indicated, and high
		risk management. Testing should not be offered outside of a
		medical framework or clinical trial.
	•	To Section II: added Note m: Genes that are typically tested for
		pancreatic cancer risk include ATM, BRCA1, BRCa2, CDKN2A,
		most Lynch syndrome genes (MLH1, MSH2, MSH6, EPCAM),
		PALB2, STK11, and TP53.
	•	To Section II: added Note n: Pancreatic cancer risk is higher in
		individuals of Ashkenazi Jewish descent. Genetic testing of
		Ashkenazi Jewish descent. Genetic testing of Ashkenazi Jewish
		patients with pancreatic cancer may have higher yield of
		mutations than of non-Ashkenazi Jewish patients.
	•	To Section II: added Note o: Testing of first-degree relatives
		should only be done if it is impossible to test the individual who
		has pancreatic cancer. Some second-degree relatives may meet
		testing criteria based on additional family history.
	•	To Section II – First bullet: Modified to read as follows:
		Individuals with any blood relative with a known
		pathogenic/likely pathogenic variant in a cancer susceptibility
		gene.
	•	To Section II – Second bullet: Modified to read as follows:
		Individuals meeting the criteria below but with previous limited
		testing (eg. single gene and/or absent deletion dunlication
		analysis) interested in pursuing multi-gene testing
		To Section II – Third Bullet: Modified to read
		Personal history of capcor
1		



Denote a second de la companya de la falla di se
Breast cancer plus one more of the following:
<ul> <li>Diagnosed ≤45 years of age</li> </ul>
<ul> <li>Diagnosed 46-50 years of age with:</li> </ul>
<ul> <li>An unknown or limited family history; or</li> </ul>
<ul> <li>A second breast cancer primary at any age: or</li> </ul>
<ul> <li>N close blood relative with broast, evering</li> </ul>
<ul> <li>21 close blood relative with breast, ovariall,</li> </ul>
pancreatic, or nign-grade (Gleason score ≥7) or
intraductal prostate cancer at any age; or
<ul> <li>Diagnosed ≤60 years of age with triple-negative breast</li> </ul>
cancer;
<ul> <li>Diagnosed at any age with:</li> </ul>
Ashkenazi Jewish ancestry: or
<ul> <li>&gt;1 close blood relative with breast cancer diagnosed</li> </ul>
<50 years of age or ovarian nancreatic or metastatic
ar introductal prostate concer at any age or
of initiaducial prostate cancel at any age, of
<ul> <li>≥2 total diagnoses of breast cancer in patient and/or</li> </ul>
close blood relatives
<ul> <li>Diagnosed at any age with male breast cancer</li> </ul>
<ul> <li>Added new indication: Epithelial ovarian cancer (including</li> </ul>
fallopian tube cancer or peritoneal cancer) at any age
Added new indication: Exocrine pancreatic cancer at any age
Added new indication: High grade (Gleacon score >7)
$= - \frac{1}{2} - $
prostate cancer with.
<ul> <li>Ashkenazi Jewish Ancestry; or</li> </ul>
<ul> <li>≥1 close relative with breast cancer at age ≤50 years or</li> </ul>
ovarian, pancreatic, or metastatic or intraductal prostate
cancer at any age; or
<ul> <li>≥2 close relatives with breast cancer or prostate cancer</li> </ul>
(any grade) at any age.
<ul> <li>Added new indication: A mutation identified on tumor</li> </ul>
genomic testing that has clinical implications if also
identified in the germline
<ul> <li>To aid in systemic therapy decision-making such as HER2-</li> </ul>
negative metastatic breast cancer
<ul> <li>Added now indication #4. Family history of cancer</li> </ul>
<ul> <li>Added new indication #4. Fairing history of cancel</li> <li>An effected enumeffected individual with a first on</li> </ul>
An affected or unaffected individual with a first- or
second- degree blood relative meeting any of the criteria
listed above (except individuals who meet criteria only for
systemic therapy-decision-making)
<ul> <li>Added new indication under #4, first bullet: And affected and</li> </ul>
unaffected individual who otherwise does not meet the criteria
above has a probability >5% of a BRCA1/2 pathogenic variant
based on prior probability models (eg, Tyrer-Cuzick, BRCAPro,
Pennll)
<ul> <li>Added new indication under #4, second bullet: Testing may be</li> </ul>
considered in the following scenarios (with appropriate pre-test
education and access to post-test management):
1 Bilateral breast cancer first diagnosed between ages 50-65
2 An unaffected Ashkonazi lowish individual
2. An unanected Ashkenazi Jewish individual
5. An anected or unanected individual who otherwise does not
meet any of the above criteria but with a 2.5%-%5
probability of BRCA1/2 pathogenic variant based on prior
probability models (eg, Tyrer-Cuzick, BRCAPro, Pennll)
<ul> <li>Modified single note with asterisk as new Note 1.</li> </ul>
• Added new Note 2, which reads: There is a low probability
(<2.5%) that testing will have findings of documented clinical
utility in the following scenarios: a) Women diagnosed with
utility in the following scenarios: a) Women diagnosed with breast cancer at age >65 years, with no close relatives with
utility in the following scenarios: a) Women diagnosed with breast cancer at age >65 years, with no close relatives with breast, ovarian, pancreatic, or prostate cancer, and b) Men

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		and no close relatives with breast ovarian pancreatic or
		and no close relatives with breast, ovarian, parcreatic, of
		prostate cancer.
		To the limitations Section:
		To the Limitations Section.
		<ul> <li>To #1 - Deleted. Repeat genetic testing is Not covered. In general diagnostic genetic testing for a disease should be</li> </ul>
		performed once in a lifetime for an inherited condition. Added
		portions to sentence to first sentence "A specific test may only
		be performed".
		• To #1- 2 <sup>nd</sup> sentence: Modified term "whenever" to "when".
		To the Documentations Requirements Section:
		Deleted b: Documentation requirements of the performing
		laboratory (when requested) include, but are not limited to, lab
		accreditation, test requisition, test record/procedures, reports
		(preliminary and final), and quality control record.
		<ul> <li>Deleted c: Documentation requirements for LDT(s) (Lab</li> </ul>
		Developed Tests) / protocols (when requested) include
		diagnostic test/assay, lab/manufacturer, names of comparable
		assays/services (if relevant), description of assay, analytical
		validity evidence, clinical validity evidence, and clinical utility.
		<ul> <li>To e: Added: The submitted medical record must support the</li> </ul>
		use of the selected ICD-10-CM code(s). The submitted
		CPT/HCPCS code must the service performed.
		To the Coding Information Section:
		Added CPT Code 81433 and 81479.
1	Device d	Added ICD-10 Code 285.3.
June 17, 2021	Revised	To the indications Section:
		<u>To the Section II:</u> Phrase "Tosted Negative" was added to the criteria
		<ul> <li>Specific Cancer were deleted according to NCCN 2021</li> </ul>
		from II3.
		Phrase "/ cribiform histology, or high or very high-risk
		group" was added to II3.
		Phrases "Any risk group" and "the following family
		history" were added to II3.
		Word Bilateral was deleted and Phrase "Multiple
		Primary" was added to the II.4.1
		Word "Unaffected" was deleted from II.4.2
		New information was added to the Note "a".
		Word "Mother" was deleted and Substitute by the
		word "Father" according NCCN page CRIT-2A in NOTE
		j".
		CPIT 24 from Note L Linder Testing Criteria for High
		CRIT-ZA ITOM NOLE J. Under Testing Chiefla for High
		Suscentibility Genes
		Word "Inaffected" was deleted from Note I
		according to NCCN page CRIT-2A.
		<ul> <li>Sentence "Genetic testing of Ashkenazi Jewish</li> </ul>
		· · · · · · · · · · · · · · · · · · ·
		descent" was deleted from the Note "N" according to
		descent" was deleted from the Note "N" according to NCCN page CRIT-3.
		descent" was deleted from the Note "N" according to NCCN page CRIT-3.
		descent" was deleted from the Note "N" according to NCCN page CRIT-3. To the Coding Section:
		descent" was deleted from the Note "N" according to NCCN page CRIT-3. <u>To the Coding Section</u> : <u>To the CPT Code Box</u> :
		descent" was deleted from the Note "N" according to NCCN page CRIT-3.         To the Coding Section:         • To the CPT Code Box:         > CPT Codes 81445 and 81455 were deleted and
		descent" was deleted from the Note "N" according to NCCN page CRIT-3.         To the Coding Section:         • To the CPT Code Box:         > CPT Codes 81445 and 81455 were deleted and removed according to the Instruction included in the
		descent" was deleted from the Note "N" according to NCCN page CRIT-3.         To the Coding Section:         • To the CPT Code Box:         > CPT Codes 81445 and 81455 were deleted and removed according to the Instruction included in the LCA A57449.
		descent" was deleted from the Note "N" according to NCCN page CRIT-3.         To the Coding Section:         • To the CPT Code Box:         > CPT Codes 81445 and 81455 were deleted and removed according to the Instruction included in the LCA A57449.         > CPT Code 81215 was added to the note 2.

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		• <u>To the ICD-10 Code Box</u> : <u>The following ICD-Code were deleted from this Policy</u> : C50.919, Z80.51, and Z80.6.
		To the References Section:           • <u>The following References were added to the Policy</u> : #9 and 12.
		The following References were deleted from this Policy:     #4 and 6.
September 27, 2023	Revised	References updated. Deleted former #1 & #7. Added new #1, 3, 6 &12.
		To the Indications Section:
		To the Indications Section II:
		Added new Subsection "A. General Testing Criteria".
		<ul> <li>To #3: Deleted subtitle "Breast cancer plus one more</li> </ul>
		of the following".
		<ul> <li>To new #3: Added: A pathogenic or likely pathogenic variant identified on tymor genomic testing that has</li> </ul>
		clinical implications if also identified in the germline
		<ul> <li>Added new #4: To aid in systemic therapy and</li> </ul>
		surgical decision-making <sup>b</sup>
		<ul> <li>Added new #5: Individual who meets Li-Fraumeni</li> </ul>
		syndrome (LFS) testing criteria or Cowden syndrome
		(CS)/PTEN hamartoma tumor syndrome (PHTS)
		testing criteria or Lynch syndrome (LS)
		<ul> <li>Added new #6: Testing may be considered in the</li> </ul>
		following scenario (with appropriate pre-test
		education and access to post-test management):
		An individual of Ashkenazi Jewish ancestry <sup>c</sup>
		without additional risk factors"
		<ul> <li>Personal history of serous endometrial cancer<sup>e</sup></li> </ul>
		<ul> <li>Added new subsection "B. Testing Criteria for High-</li> </ul>
		Penetrance Breast Cancer Susceptibility Genes"
		– To Subsection B, bullet #1: modified age to SSU y To second bullet added: A Treatment indications
		<ul> <li>To second bullet, added:          <ul> <li>Treatment designs using DAPP</li> </ul> </li> </ul>
		- TO druin systemic reactinent decisions using PARP inhibitors for breast cancer in the metastatic settingik
		<ul> <li>To aid in adjuvant treatment decisions with</li> </ul>
		olanarib for high-risk <sup>1</sup> HER2-negative breast cancer <sup>j</sup>
		<ul> <li>To second sub-bullet, also added:</li> </ul>
		◊ Pathology/histology
		– Triple-negative breast cancer
		<ul> <li>Multiple primary breast cancers (synchronous or</li> </ul>
		metachronous) <sup>m</sup>
		<ul> <li>Lobular breast cancer with personal or family</li> </ul>
		history of diffuse gastric cancer
		<ul> <li>I o Second builet, 2<sup>IIII</sup> sub-builet: Deleted A second</li> <li>broact cancer primary of any and Added. Individuals</li> </ul>
		affected with breast cancer (not mosting testing
		criteria listed above)
		<ul> <li>To Second bullet. 3rd sub-bullet: Modified</li> </ul>
		superscript to letter g and added term prostate.
		<ul> <li>Added new 5<sup>th</sup> sub-bullet, which reads:</li> </ul>
		♦ Family History <sup>n</sup>
		$\circ \geq 1$ close blood relative with ANY:
		- breast cancer at age $\leq 50$
		- male preast cancer
		- nancreatic cancer with metastatic P or high- or
		very-high risk group (Initial Risk Stratification



	and Staging Workup in NCCN Guidelines for
	Prostate Cancer)
	>2 total diagnesses of broast prostate concer any
	<ul> <li>– 23 total diagnoses of breast prostate cancer any</li> </ul>
	(any grade) or the same side of the family
	including the patient with breast cancer
	<ul> <li>To hullet #2: Deleted the following hullets:</li> </ul>
	$\sim$ To bullet #2. Deleted the following bullets.
	✓ Diagnosed ≤60 years of age with thpie-negative
	breast cancer;
	Diagnosed at any age with:
	o Ashkenazi Jewish ancestry: or
	a >1 class blood relatives with broast concer
	diagnosed ≤50 years of age or ovarian,
	pancreatic, or metastatic or intraductal/
	cribiform histology, or high or very high-risk
	group prostate cancer at any age; or
	a > 2 total diagnosos of broast cancer in patient
	0 23 total diagnoses of bleast cancel in patient
	and/or close blood relatives
	Diagnosed at any age with male breast cancer
	Epithelial ovarian cancer <sup>f</sup> (including fallopian tube
	cancer or peritoneal cancer) at any age
	Exocrine pancreatic cancer at any ages
	Metocratic or interducted / authors which is a which
	Wietastatic or intraductal/ cribitorm histology, or high
	or very high-risk group prostate cancer at any age
	Any risk group High prostate cancer with the
	following family history:
	> >1 close relative with breast cancer at age <50
	ZI close relative with breast cancel at age 250
	years or ovarian, pancreatic, or metastatic or
	intraductal/ cribriform prostate cancer at any
	age; or
	$\geq$ 2 close relatives <sup>e</sup> with breast cancer or prostate
	cancer (any grade) at any age
	- A mutation identified on tumor concernic testion that
	A mutation identified on tumor genomic testing that
	has clinical implications if also identified in the
	germline
	<ul> <li>To aid in systemic therapy decision-making such as</li> </ul>
	HER2-negative metastatic breast cancer
	To Dullet #2, sub built #1, under Forsily bistory of
	- To Bullet #2, sub-bullet #1 under Family history of
	cancer: Added phrase "Individuals affected with
	breast cancer (not meeting testing criteria listed
	above).
	– To #2 2 <sup>nd</sup> hullet: Replaced probability model
	"Donall" with "ConDick" and realwood former
	Pennin with Cankisk and replaced former
	superscript with letter r.
	<ul> <li>To #2, deleted bullet #2: Multiple primary Bilateral</li> </ul>
	breast cancers, first diagnosed between ages 50 - 65
	vrs.
	To now #2. Added. Testing may be considered in the
	- To new #3. Added: Testing may be considered in the
	following scenarios (with appropriate pre-test
	education and access to post-test management):
	a. Personal history of breast cancer <60 v not
	meeting any of the above criteria may approach a
	2 EV probability of baying a probable or likely
	probable variant, based on recent data.' It is
	cautioned that the majority of those probable
	variants will be in moderate penetrance genes. which
	are over-represented in older affected individuals
	and for which data on appropriate management are
	and for which data on appropriate management are
	often lacking. Access to an experienced genetic
	counseling team to discuss management options is
	particularly important in this setting.
	<ul> <li>Personal history of breast cancer diagnosed at any</li> </ul>
	and with \$1 along valative? with intermedicts of the
	age with 21 close relative" with intermediate-risk
1	prostate cancer with intraductal/cribriform histology.

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(see Initial Risk Stratification and Staging Workup in
NCCN Guidelines for Prostate Cancer)
<ul> <li>To bullet 3-c: Added 2 5% and replaced probability</li> </ul>
model "Dennil" with "CanDick" and replaced former
model Perini with Cankisk and replaced former
superscript with letter f.
<ul> <li>To Note 2: Replaced "clinical utility" with "high-</li> </ul>
penetrance genes". To scenario a: Also replaced term
women with "female", modified age >65 to >60 and
modified superscript following relative with letter o.
<ul> <li>To Note a: Modified year to Version 2 2024 –</li> </ul>
Sentember 27, 2023
Medified Note h to read, "E a DADD inhibitors for
- Woullieu Note bito read. E.g., PARP Inhibitors for
ovarian cancer, prostate cancer, pancreatic cancer,
and metastatic HER2-negative breast cancer;
platinum therapy for prostate cancer and pancreatic
cancer; and risk-reducing surgery."
<ul> <li>To note c: Modified to read as follows: Testing for</li> </ul>
three founder pathogenic or likely pathogenic
mutations for BRCA1/2 may be offered to individuals
as early as age 18-25 years, who have one
as early as age 10-25 years, who have one
granuparent identified as of Ashkenazi jewish
ancestry, irrespective of cancer history in the family,
as part of longitudinal studies. For those without
access to longitudinal research studies, testing may
be provided if there is access to pre-test education
along with post-test counseling, additional genetic
testing if indicated, and high-risk management.
Testing should not be offered outside of a medical
framework or clinical trial
No new note D. Added in addition to the DDCA1 and
- No new note D, Added: In addition to the BRCA1 and
BRCA2 PV in those of Ashkenazi ancestry, there are
other ancestries that demonstrate "Founder
mutations." In these circumstances, the decision to
test will depend on the prevalence of the PV in the
local population, family history, clinical features, and
age of cancer diagnosis. Some additional examples
where ancestry may, along with personal and/or
family history contribute to decisions about genetic
tacting include the following acceptations: PPCA1 DV
and Delich exception DDCA2 DV and Isolandia
and Polish ancestry; BRCA2 PV and Icelandic
ancestry; BRCA1 and BRCA2 PV In those of French
Canadian ancestry; numerous BRCA1 and BRCA2 PV
in those of Spanish, Mexican, and Central and South
American descent; BRCA1 and BRCA2 PV and
Bahamian ancestry; and BRCA1 and BRCA2 PV and
Hungarian ancestry. The TP53 PV c.1010G>A
(p.Arg337His) PV is seen in a subset of those of
Brazilian ancestry, and CDKN2A founder
c 225 2/2del (n Ala76fs) in those of Dutch ancestry
While emerging data derived from nonulations of
while energing data derived from populations of
Asian, African, and Middle Eastern origin have
documented recurring mutations in BRCA1 and
BRCA2 and other genes, population allele frequency
data are not yet available to inform testing
individuals based solely on ancestry in the absence of
personal and/or family history. The same is true for
founder mutations in lower penetrance genes (e.g.
CHEK2 c 1100dolC in those of porthorn European
chilk2 c. 11000elc in those of normal history is from
ancestry), where family and personal history inform
decisions for testing.
<ul> <li>To new note e no reads: This is a rare subtype of</li> </ul>
uterine cancer for which there is evolving evidence of
an association with BRCA 1P/LP variants.

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<ul> <li>Deleted former note f, and replaced with: Testing for</li> </ul>
pathogenic variants in other genes should take into
consideration factors such as patient preferences,
turnaround time, and insurance restrictions to
narticular labs (and thus narticular nanels). The
particular labs (and thas particular particip). The
prevalence of vos increases with testing of
additional genes. Individuals should have pre-test
education on the challenges in managing pathogenic
variants in genes associated with specific syndromes
(e.g., CDH1 and TP53 given their expanding clinical
nhenotypes) in the absence of a family history typical
of such sundramas (dass not apply for da nova
of such syndromes (does not apply for de novo
pathogenic variants). Patients should also have pre-
test education regarding the uncertain clinical utility
of identifying certain pathogenic variants (e.g.,
monoallelic MUTYH).
<ul> <li>Former Note g was replaced with: Meeting one or</li> </ul>
more of these criteria warrants further personalized
risk assessment genetic counseling and often
nisk assessment, genetic coursening, and orten
genetic testing and management.
<ul> <li>A new note h reads: For the purposes of this Medical</li> </ul>
Policy, invasive and ductal carcinoma in situ breast
cancers should be included.
<ul> <li>New note i now reads: For personal or family history</li> </ul>
of ovarian cancer, see Section C: for pancreatic
cancer see CRIT-5 and for prostate cancer see CRIT-
6 in National Comprehensive Cancer Network (NCCN)
Clinitational completiensive called inetwork (NCCN)
Clinical Practice Guideline in Oncology for
Genetic/Familial High-Risk Assessment Breast,
Ovarian, and Pancreatic Version 2.2024 – September
27, 2023.
<ul> <li>A new note j was added: Robson, M., et al. N Engl J</li> </ul>
Med 2017: 377:523-533 Litton IK et al N Engl I
Mod 2019, 377 323 355. Ettol, 5.1., et al. 17 Elig. 3
Added now notek which reads. As indicated in the
- Added new note" which reads. As indicated in the
criteria, testing is recommended for all triple
negative breast cancers, and these indications are
specifically for PARP inhibitor eligibility
<ul> <li>Added new note<sup>I</sup>: The definition of high-risk disease</li> </ul>
is that used in the Phase III OlympiA trial which
compared adjuvant Olaparib to placebo among
BRCA1/BRCA2 carriers with high-risk disease (Tutt
A N L of al Engl Med 2021, 284,3204, 240E). The
A.N.J., et al. Engl J Med 2021; 384:2394-2405). The
definition includes:
<ul> <li>Triple negative breast cancer treated with</li> </ul>
either:
<ul> <li>adjuvant chemotherapy with axillary node-</li> </ul>
positive disease or an invasive primary
tumor >2cm on nathology analysis or
noordiment chemotherony with residual
- neoaujuvant chemotherapy with residual
invasive breast cancer in the breast or
resected lymph nodes.
<ul> <li>Hormone receptor positive disease treated with</li> </ul>
either:
- adjuvant chemotherapy with $\geq 4$ positive
nathologically confirmed lymph podes or
pacific by the set of the set of the set of the set of the set
<ul> <li>neoaujuvant chemotherapy which did hot</li> </ul>
have a complete pathologic response, with
a CPS+EG score of 3 or higher.
<ul> <li>The CPS+EG scoring system is based on a</li> </ul>
combination of clinical and pathologic stage.
estrogen receptor status and histologic grade

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See Neoadiuvant Therapy Outcomes Calculator
$(1 \circ r) = (1 \circ$
(Jei uss, J.S., et al. J Cilli Olicol 2008, 20.240-252,
Mittendorf, E.A., et al. J Clin Oncol 2011;
29:1956-1962). See NCCN Guidelines for Breast
Cancer for further details
Added on the Weiter LIN and Description
<ul> <li>Added new note m: weltzel, J.N., et al. Breast Cancer</li> </ul>
Res Treat 2021; 188:759-768
<ul> <li>Added new note n: Consideration of the limitations</li> </ul>
a final as we as listing for the stand in the initiations
of unknown or limited family structure is indicated in
those age ≥51.
<ul> <li>Added new note o: Close blood relatives include first-</li> </ul>
second, and third degree relatives on the same side
, second-, and third-degree relatives of the same side
of the family.
<ul> <li>Added new note p: Metastatic prostate cancer is</li> </ul>
hionsy-proven and/or with radiographic evidence
side state and state at a state sta
and includes distant metastasis and regional bed or
nodes. It is not a biochemical recurrence only.
Prostate cancer-specific mortality should be a
surregate for metastatic disease for family history
surrogate for metastatic disease for failing history
purposes.
<ul> <li>Added new note g: This may be extended to an</li> </ul>
affected third-degree relative if related through two
male relatives (e.g., paternal grandfather's mother or
sister). If the affected first-degree relative underwent
genetic testing and is negative for detectable P/LP
variants and there is no other family history of
variants and there is no other family history of
cancer, there is a low probability that any finding will
have documented clinical utility.
<ul> <li>Added new note r: The approximate 5% threshold for</li> </ul>
vided flew flote 1. The approximate 5% threshold for
probability of carrying BRCA1/2 pathogenic variants
is utilized because of availability of prior probability
models: however, it is recognized that current model
octimator vary substantially, and that different
estimates vary substantially, and that unrerent
thresholds may be appropriate if other genes are
included in the model utilized. If genes other BRCA1
and BRCA2 are to be included in models evaluating
the threshold for testing the populations clinical
the threshold for testing, the penetrance, clinical
actionability, and phenotypic features of cancers
associated with P/LP variants in these genes should
he considered. The nanel encourages the
de sales sees the final date date that include these
development of validated models that include these
parameters to determine eligibility and
appropriateness for gene panel testing for inherited
cancer risk. The models are only validated for BRCA
1/2.
<ul> <li>Added new note s: Kurian A, et al. JAMA</li> </ul>
2020:323:995-997.
<ul> <li>Added new note t: For personal or family bistory of</li> </ul>
Added new note t. Tor personal of failing history of
breast cancer, see Section B; for pancreatic cancer,
see CRIT-5 and for prostate cancer, see CRIT-6 in the
National Comprehensive Cancer Network (NCCN)
Clinical Dractice Cuideline in Opeology for
Genetic/Familial High-Risk Assessment Breast,
Ovarian, and Pancreatic. Version 2.2024 – September
27 2023
Added and the second
<ul> <li>Added new note u: The listed genes differ in their</li> </ul>
levels of risk. See GENE-A in the National
Comprehensive Cancer Network (NCCN) Clinical
Deaction Cuidaling in Operatory for County (1991)
Practice Guideline in Oncology for Genetic/Familial
High-Risk Assessment Breast, Ovarian, and
Pancreatic. Version 2.2024 – September 27, 2023 for
specific risks
<ul> <li>Added new note v: BRCA-related ovarian cancers are</li> </ul>



		associated with epithelial, non-mucinous histology. Lynch Syndrome (LS) can be associated with both
		non-mucinous and mucinous epithelial tumors. Be
		attentive for clinical evidence of LS (see NCCN
		Guidelines for Genetic/Familial High-Risk
		enithelial ovarian cancers and tumors can also be
		associated with other rare syndromes. Examples
		include an association between sex-cord tumors with
		annular tubules and PJS or Sertoli-Leydig tumors and
		DICER1-related disorders.
		<ul> <li>Added new Section C: Testing Criteria for Ovarian</li> </ul>
		Added new C-1, which reads: See General Testing
		Criteria on Subsection A.
		<ul> <li>Added new C-2, which reads: Personal history of</li> </ul>
		epithelial ovarian cancer <sup>v</sup> (including fallopian tube
		cancer or peritoneal cancer) at any age
		<ul> <li>Added new C-3, which reads: Family history of cancer only</li> </ul>
		<ul> <li>An individual unaffected with ovarian cancer (with a</li> </ul>
		first- or second-degree blood relative with epithelial
		ovarian cancerv (including fallopian tube cancer or
		– An individual unaffected with ovarian cancer who
		otherwise does not meet the criteria above but has a
		probability >5% of a BRCA1/2 P/LP variant based on
		prior probability models (eg, Tyrer-Cuzick, BRCAPro,
		CanRisk) <sup>r</sup>
		To the Limitations Section:
		To #5: Deleted sentence: If on review the contractor cannot link
		a billed code to the documentation, these services will be denied.
		All changes were approved at the MAC meeting.
April 11, 2024	UMC Approval	

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