

Genetic Testing-Cancer Prevention, Diagnosis and Treatment, Medical 34A

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Coverage Policy Medical 34A

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Member-specific benefits take precedence over medical policy and benefits may vary across plans. Refer to the individual's benefit plan for details*.

Purpose:

This policy addresses various single and panel genetic testing for cancer prevention, diagnosis and treatment.

For the most up to date coverage, please refer to Centers for Medicare and Medicaid Services website: <u>MCD Search (cms.gov)</u>

Description & Definitions:

Hereditary cancer is a cancer that has developed as a result of a gene mutation passed down from a parent to a child. Inheriting a gene mutation does not necessarily mean that person will develop cancer, but increases their risk. Research and studies have found that certain gene mutations increase the chances of a person to develop certain kinds of cancers, depending on family history, or to respond to certain therapies for cancer, based on the genetic components of the tumor.

Autosomal recessive: A genetic condition that appears only in individuals who have received two copies of an autosomal gene, one copy from each parent. The gene is on an autosome, a nonsex chromosome. The parents are carriers who have only one copy of the gene and do not exhibit the trait because the gene is recessive to its normal counterpart gene.

X-linked recessive inheritance - hereditary pattern in which a recessive gene on the X chromosome results in the manifestation of characteristics in male offspring and a carrier state in female offspring.

A first-degree relative is defined as a relative which includes the individual's parents, full siblings, or children

A **second-degree** relative is defined as a blood relative which includes the individual's grandparents, grandchildren, aunts, uncles, nephews, nieces or half-siblings

A **third-degree** relative is defined as a blood relative which includes the individual's first-cousins, great-grandparents or great grandchildren.

Criteria:

Genetic Testing is considered medically necessary for the prevention, diagnosis and treatment of cancer of patients who meet **ALL** the following:

• There is an approved mutation specific treatment available

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- There is sufficient Published Scientific Evidence or 3rd party Consensus in the Medical Community that the results of the specific genetic Testing directs clinical management and improves clinical outcomes;
- After completion of a thorough history, physical examination, pedigree analysis, genetic counseling, relevant diagnostic and biochemical tests (if any), the patient meets criteria for 1 or more of the following approved tests:
 - BRCA1 and BRCA 2 and BRCA Analysis Rearrangement Testing (BART) is medically necessary for 1 or more of the following:
 - BRCA testing is covered without preauthorization
 - BRCA Analysis Rearrangement Testing (BART) is covered without preauthorization.
 - Additional Genes ATM, CDH1, CHEK2, PALB2, PTEN, STK11, and/or TP53 may be testing in individuals over the age of 18 who meet 1 or more of the following clinical indications when the test results are used to make clinical management decisions:
 - Biologically-related individual from a family with a known BRCA1, BRCA2, ATM, CDH1, CHEK2, PALB2, PTEN, STK11, and/or TP53 mutation
 - Individual personal history of breast cancer and 1 or more of the following:
 - Diagnosed at age 45 or younger
 - Diagnosed at age 50 or younger with 1 or more of the following:
 - An additional breast cancer primary
 - At least one close blood relative with breast cancer at any age
 - At least one close blood relative with epithelial ovarian, fallopian tube, or primary peritoneal cancer
 - At least one close blood relative with pancreatic cancer
 - At least one close blood relative with prostate cancer (Gleason score greater than or equal to 7)
 - An unknown or limited family history (e.g. fewer than two first- or second-degree female relatives or female relatives surviving beyond 45 years in the relevant maternal and/or paternal lineage
 - Diagnosed at age 60 or younger with a triple negative breast cancer (ER, PR and HER)
 - Diagnosed at any age with 1 or more of the following:
 - At least one close blood relative with breast cancer diagnosed at age 50 or younger
 - At least two close blood relatives with breast cancer at any age
 - At least one close blood relative with epithelial ovarian, fallopian tube, or primary peritoneal cancer
 - At least two close blood relatives with pancreatic cancer and/or prostate cancer (Gleason score greater than or equal to 7) at any age
 - At least one close male blood relative with breast cancer
 - Individual of Ashkenazi Jewish descent, no additional family history required
 - Individual personal history of epithelial ovarian, fallopian tube, or primary peritoneal cancer at any age
 - Individual personal history of male breast cancer at any age
 - Individual with a personal history of pancreatic cancer at any age, who have at least one close blood relative on the same side of the family with 1 or more of the following:
 - Breast cancer at age 50 or younger
 - Ovarian cancer at any age
 - Pancreatic cancer at any age
 - Individual of Ashkenazi Jewish descent, no additional family history required;
 - Individual with a personal history of prostate cancer (Gleason score greater than or equal to 7) at any age with at least one close blood relative with 1 or more of the following:
 - Breast cancer at age 50 or younger
 - Ovarian cancer at any age
 - o Pancreatic cancer at any age
 - o Prostate cancer (Gleason score greater than or equal to 7) at any age
 - No personal history of breast or ovarian cancer and a family history of first- or second-degree blood relative meeting any of the above criteria;

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- No personal history of breast or ovarian cancer and a family history of a third-degree blood relative with breast and/or epithelial ovarian/fallopian tube/primary peritoneal cancer with two or more close blood relatives with breast and/or ovarian cancer (with at least one close blood relative with breast cancer prior to age 50).
- Individuals with a combination of breast cancer with 1 or more of the following:
 - Thyroid cancer
 - o Sarcoma
 - Adrenocortical Cancer
 - Endometrial cancer
 - o Pancreatic cancer
 - Brain tumors
 - o Gastric cancer
 - o Leukemia
 - Lymphoma
- Familial Adenomatous Polyposis (FAP) or attenuated familial adenomatous polyposis (AFAP) is medically necessary 1 or more of the following:
 - To confirm the diagnosis of FAP in an affected patient
 - To provide presymptomatic testing for at -risk relatives (first- or second- or third degree relative) of an affected patient
 - To confirm the diagnosis of FAP in those with 10 or more adenomas
 - To provide presymptomatic testing for at -risk relatives (first- or second- or third degree relative) of an affected patient
- o Colaris, COLARIS AP and/or MUTYH, APC, MLH1, MSH2, MSH6, PMS2, EPCAM, MYH gene testing (1, 2 or 3) must meet 1 or more of the following criteria:
 - Individual should meet ALL of the following criteria based on Amsterdam criteria combined I and II (based on family history)
 - At least three relatives with CRC or with an HNPCC-associated cancer (colorectal cancer, endometrial cancer, ovarian cancer, cancer of the stomach, small bowel, pancreas, ureter or renal pelvis, biliary tract, brain/CNS, sebaceous gland adenomas or keratocanthomas as seen in Muir-Torre syndrome);
 - One member should be a first degree relative of the other two
 - At least two successive generations should be affected;
 - At least one member should be diagnosed with Colorectal Cancer or a cancer associated with Lynch syndrome (colorectal cancer, endometrial cancer, ovarian cancer, cancer of the stomach, small bowel, pancreas, ureter or renal pelvis, biliary tract, brain/CNS, sebaceous gland adenomas or keratocanthomas as seen in Muir-Torre syndrome); before age 50
 - Member should meet 1 or more of the following criteria based on revised Bethesda guidelines (based on personal history)
 - Colorectal cancer diagnosed in an individual younger than 50 years;
 - Presence of synchronous or metachronous, colorectal or other Lynch-Syndrome related tumor (colorectal cancer, endometrial cancer, ovarian cancer, cancer of the stomach, small bowel, pancreas, ureter or renal pelvis, biliary tract, brain/CNS, sebaceous gland adenomas or keratocanthomas as seen in Muir-Torre syndrome); regardless of age
 - Colorectal cancer with MSI-high (MSI-H) pathologic –associated features diagnosed in an individual younger than 60 years (i.e, presence of tumor infiltrating lymphocytes, Crohn's like lymphocytic reaction, mucinous/signet -ring differentiation, or medullary growth pattern);
 - Colorectal cancer or Lynch syndrome-associated tumor (colorectal cancer, endometrial cancer, ovarian cancer, cancer of the stomach, small bowel, pancreas, ureter or renal pelvis, biliary tract, brain/CNS, sebaceous gland adenomas or keratocanthomas as seen in Muir-Torre syndrome); diagnosed in a member AND in at least one first degree relative younger than 50 years;
 - Colorectal cancer or Lynch syndrome-associated tumor (colorectal cancer, endometrial cancer, ovarian cancer, cancer of the stomach, small bowel, pancreas, ureter or renal pelvis, biliary tract, brain/CNS, sebaceous gland adenomas or keratocanthomas as seen in Muir-Torre syndrome); diagnosed in a member AND in at least two first or second degree relatives at any age

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- For a member from a family with known high risk syndrome associated with colorectal cancer, with or without known mutation,
- Member with a desmoid tumor
- Lynch syndrome testing in patients with at least a 5% risk to carry a mutation using 1 or more of the following Lynch Syndrome Risk Assessment models:
 - PREMM 1,2,6: http://premm.dfci.harvard.edu/
 - MMR Predict: https://webapps.igc.ed.ac.uk/world/research/hnpccpredict/
 - MMRPro submit clinical information
- o KRAS and NRAS Testing is medically necessary for 1 or more of the following:
 - If currently being considered for treatment with Erbitux® (cetuximab) or Vectibix™
 (panitumumab) for colorectal cancer
 - Before beginning Erbitux or Vectibix treatment, either as single medicines or in combination with chemotherapy
 - When first diagnosed with advanced colon or rectal cancer and are planning a treatment strategy
 - Individual with metastatic colorectal Cancer (CRC) needing tumor tissue genotyping for RAS mutations both KRAS and NRAS.
- Multiple Endocrine Neoplasia Type 1(MEN1) or RET gene testing is medically necessary for 1 or more of the following:
 - Clinical suspicion or family history of multiple endocrine neoplasia syndrome, as indicated by
 1 or more of the following
 - Patient with 2 or more endocrine tumors
 - Patient with family history of 2 or more endocrine tumors
 - Patient with "red flag" tumor, as indicated by 1 or more of the following:
 - Medullary carcinoma of thyroid
 - Pheochromocytoma
 - Parathyroid carcinoma;
 - o Paraganglioma
 - MEN1 testing in patient with 1 or more of the following:
 - Appropriate primary hyperparathyroidism feature, as indicated by 1 or more of the following
 - Multiglandular hyperparathyroidism;
 - Onset of primary hyperparathyroidism at age 30 years or younger
 - Relative with primary hyperparathyroidism
 - Gastrinoma
 - Multifocal pancreatic endocrine tumors
 - Relative of patient with known MEN1 mutation
- Medullary Thyroid Cancer and Multiple Endocrine Neoplasia Type 2 (MEN2), RET testing is medically necessary for 1 or more of the following:
 - Among members of families with defined RET gene mutations
 - Among members of families known to be affected by inherited medullary thyroid cancer but not previously evaluated for RET mutation
 - In members with sporadic medullary thyroid cancer.
- Molecular and/or gene expression classifiers for molecular markers for the evaluation of thyroid nodules for 1 or more of the following:
 - Thyroid Cancer Mutation Panel (BRAF, RAS, RET/PTC, PAX8/PPAR) when the result
 of fine needle aspiration sampling of the thyroid nodule is indeterminate
 - Afirma test is considered medically necessary unless there is evidence of the lesion being clearly benign or malignant
 - ThyroSeq Panel is medically necessary for 1 or more of the following:
 - This test is considered medically necessary when there is a follicular or Hürthle cell neoplasm
 - Atypia of undetermined significance or follicular lesion of undetermined significance
- Oncotype DX for Breast Cancer Reverse transcriptase polymerase chain reaction assay for breast cancer gene expression (Oncotype DX) is indicated when ALL of the following are present:
 - Axillary node biopsy is negative for tumor or Tumor is pN0 (node negative) or pN1mi with axillary lymph node micrometastasis less than or equal to 2mm; or with 1-3 positive Axillary Lymph Nodes (ALN) (e.g., Oncotype DX for ductal carcinoma in situ without DCIS recurrence score);

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- Newly diagnosed invasive ductal or invasive lobular carcinoma of breast, stage I or II
- The outcome of testing will guide decision making regarding adjuvant chemotherapy;
- Patient is female
- Primary tumor is estrogen receptor-positive
- Primary tumor is HER-2 receptor-negative.
- TP53 gene testing for individuals with 1 or more of the following:
 - Individual with a suspected or known clinical diagnosis of Li-Fraumeni syndrome (LFS)
 - Li-Fraumeni-Like syndrome, or a known family history of a P53 mutation
 - Individual whose medical and/or family history is consistent with 1 or more of the following:
 - A relative with a known deleterious TP53 gene mutation
 - A diagnosis of classic Li-Fraumeni syndrome, defined by ALL of the following:
 - Diagnosis of sarcoma before the age of 45 years
 - A parent, child, or full sibling diagnosed with cancer before the age of 45 years;
 - An additional first- or second-degree relative in the same lineage with cancer diagnosed before age 45 years, or a sarcoma at any age;
 - A diagnosis of Li-Fraumeni-Like syndrome defined by **ALL** of the following:
 - Diagnosis of a childhood tumor or sarcoma, brain tumor, or adrenocortical carcinoma diagnosed before age 45 years;
 - A first- or second-degree relative with typical Li-Fraumeni syndrome tumor* at any age;
 - Another first- or second-degree relative with cancer diagnosed before age 60 years;
 - A diagnosis of breast cancer before age 35 years with a negative BRCA1/2 test especially if there is a family history of sarcoma, brain tumor or adrenocortical carcinoma.
 - For individual with multiple primary tumors, 2 of which are sarcoma, brain or breast cancer and/or adrenocortical cancer before age 36
 - Individual with adrenocortical cancer and choroid plexus ca at any age
- PTEN Gene testing should meet criteria for either Operational Diagnosis in member or Operational diagnosis for family where one individual is diagnostic for Cowden Syndrome as evidence by 1 or more of the following (See below criteria for Pathognomic Criteria, Major Criteria and Minor Criteria definitions[#]):
 - Operational Diagnosis in individual as evidence by 1 or more of the following:
 - Mucocutaneous lesions alone with 1 or more of the following:
 - o There are 6 or more facial papules, of which 3 or more must be trichilemmoma;
 - Cutaneous facial papules and oral mucosal papillomatosis
 - Oral mucosal papillomatosis and acral keratoses
 - Palmoplantar keratoses, 6 or more
 - Two or more major criteria but one must include macrocephaly or Lhermitte-Duclos disease (LDD)
 - 1 major and 3 minor criteria
 - 4 minor criteria
 - Operational diagnosis in a family where one person is diagnostic for Cowden syndrome as evidence by 1 or more of the following:
 - Any pathognomonic criterion
 - Any one major criterion with or without minor criteria
 - Two minor criteria
 - History of Bannavan-Riley-Ruvalcaba syndrome
- MYH-associated polyposis (MAP) is appropriate when 1 or more of the following criteria is met:
 - Members with greater than 10 adenomatous colonic polyps; or greater than 15 cumulative adenomas in 10 years and have either
 - Who have a recessive inheritance (family history positive only for siblings)
 - Who have undergone testing for adenomatous polyposis coli (APC) with negative results
 - The asymptomatic siblings of individuals with known MYH-associated polyposis (MAP) and/or Colon Cancer.
- BCR-ABL mutation analysis is medically necessary for 1 or more of the following:

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- BCR-ABL and T315-I mutation analysis is covered for the diagnosis and management of members with Philadelphia chromosome positive (Ph+) Chronic Myelogenous Leukemia (CML), or acute lymphoblastic leukemia (ALL)
- As part of the workup for myelodysplastic syndrome (MDS) myeloproliferative neoplasm (MPN) that includes persistent leukocytosis, thrombocytosis, or cytopenias
- BCR-ABL mutation other than T315-I for patients considered for treatment with dasatinib (Sprycel®) or nilotinib (Tasigna)
- Pathfinder TG is medically necessary for 1 or more of the following:
 - To be used adjunctively in cases in which a definitive pathologic diagnosis cannot be rendered on a tissue or cytology specimen, either due to inadequate specimen or equivocal histologic or cytologic findings
- Genetic testing for susceptibility to malignant diseases not listed above is covered when ALL of the following criteria are met:
 - The genetic disorder is associated with a potentially significant cancer or has a lethal natural history;
 - The risk of the type of cancer from the genetic disorder cannot be identified through biochemical or other testing
 - Specific mutation(s) have been established in the scientific literature to be reliably associated with the disease;
 - The results of the genetic test may impact the medical management of the individual;
 - Testing is accompanied by genetic counseling
- o Von Hippel-Lindau syndrome (VHL) gene testing when ALL of the Following:
 - The member displays clinical features, or is at direct risk of inheriting the mutation in question (pre-symptomatic)
 - The result of the test will directly impact the treatment being delivered to the member;
 - After history, physical examination, pedigree analysis, genetic counseling, and completion of conventional diagnostic studies, a definitive diagnosis remains uncertain
- CBFB/MHY 11(acute myeloid leukemia) to diagnose acute myelomonocytic leukemia (AML) with abnormal eosinophils covered without criteria.
- KIT Test (9C Kit/V Kit Hardy Zuckerman Oncogene) for Gastrointestinal Stromal Tumor (GIST) is covered without criteria.
- BRAF gene is covered without criteria.
- FLT3 (fms-related tyrosine kinase 3)/ CEBPA/ NPM1 (This test may also be ordered as a soft FLDV) is medically necessary for any individual diagnosed with acute myeloid leukemia.
- STK11 is medically necessary for All of the following:
 - Individual with harmatomatous polyps
 - breast cancer with hyperpigmented macules of the lip and oral mucosa
- CDH1 gene testing is medically necessary for 1 or more of the following:
 - ≥2 cases of diffuse gastric cancer in first degree relatives, with at least one diagnosed at <50 years
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 - ≥3 cases of documented diffuse cancer in first or second degree relatives independent of age of onset
 - Personal history of diffuse gastric cancer diagnosed at <40 years regardless of family history;
 - A personal or family history of diffuse gastric cancer AND lobular breast cancer with one diagnosed at <50 years
- JAK2 (including exons 12 and 13 or JAK2V617F), Myeloproliferative Leukemia gene (MPL), and Calrecticulin Mutation Analysis (CALR) gene testing is medically necessary for 1 or more of the following:
 - JAK2^{V617F}, MPL, and/or CALR for initial testing of clinical and laboratory features suggestive of polycythemia vera
 - Clinical, laboratory, and/or bone marrow features suggestive of essential thrombocytosis
 - Clinical, laboratory, and/or bone marrow features suggestive of primary myelofibrosis (chronic leukemia) or leukocytosis.
 - JAK2 tyrosine kinase mutation (e.g., in exon 12) testing when JAK2^{V617F} testing is negative
- Immuno Globulin Heavy Chain (IGH) is medically necessary for the diagnosis and management of patients with 1 or more of the following:
 - Multiple Myeloma
 - Status post Bone Marrow /Stem Cell Transplantation
 - Acute myeloid leukemia (AML), also known as acute myelogenous leukemia or acute nonlymphocytic leukemia (AML or ANLL)

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- PML/RAR Alpha (Promyelocytic Leukemia PML-RAR alpha PCR) testing for 1 or more of the following:
 - at the end of consolidation treatment
 - Relapse monitoring (e.g. every 3 months for 2 years or every 3-6mo for the next 3 years)
 - if a positive test result is obtained, repeat testing from bone marrow in 2-4wks
 - high risk members >60y/o or who had interruptions during consolidation or not able to tolerate maintenance
- Hereditary retinoblastoma, RB1 Testing for diagnosis or screening for hereditary retinoblastoma, as indicated by 1 or more of the following
 - First-degree relative of patient with known RB1 mutation
 - Patient with retinoblastoma, with or without family history of retinoblastoma
- o Calreticulin Exon 9 (CALR) testing is covered without criteria or preauthorization.
- Epidermal growth factor receptor (EGFR) [for example, Therascreen] is considered medically necessary as a technique to predict treatment response for individuals with non-small cell, nonsquamous cell lung cancer undergoing treatment with EGFR tyrosine kinase inhibitor therapy (for example, erlotinib [Tarceva], gefitinib [Iressa], or afatinib [Gilotrif]).
- ALK gene is approved for members with lung cancer or for consideration of treatment of any drug which requires ALK gene testing as part of FDA indication.
- Juvenile polyposis syndrome (JPS SMAD4 and BMPR1A) is covered for individuals with 1 or more of the following:
 - Have five or more juvenile polyps in the colorectum
 - any juvenile polyps in other parts of the gastrointestinal tract
- Bladder Tumor Marker Testing (e.g. UroVysion, bladder tumor antigen test, nuclear matrix protein 22 testing (NMP-22), or fibrin/fibrinogen degradation products test) is considered medically necessary for 1 or more of the following:
 - Follow-up of treatment for bladder cancer
 - Monitoring for eradication of bladder cancer
 - Recurrences after eradication
- Bone marrow testing for MYD88 gene mutation is covered for individuals being evaluated for Waldenström Macroglobulinemia or Lymphoplasmacytic Lymphoma.
- Hereditary Paraganglioma-Pheochromocytoma (PGL/PCC) Syndrome testing is medically necessary for 1 or more of the following:
 - Individual has a first-degree relative with a known SDHB, SDHC, SDHD, or TMEM127 mutation
 - Individual with paraganglioma or pheochromocytoma characterized by 1 or more of the following:
 - Malignant tumor
 - Previous head and neck paraganglioma (e.g., carotid body tumor)
 - Recurrent tumor
 - Tumor diagnosed before age 45 years
 - Two or more metachronus (diagnosed at different times) tumors
 - Individual with pheochromocytoma without clinical findings suggestive of neurofibromatosis type 1, von Hippel-Lindau syndrome, or multiple endocrine neoplasia type 2.
- Endopredict Panel Testing is medically necessary for anyone who has already had the oncotype Dx and is considering additional chemo and/or hormonal therapy where the results would help informed treatment.
- Percepta Bronchial Genomic Classifier is medically necessary for All of the following:
 - Individual is a current or former smokers
 - Individual is age 21 or greater
 - Individual has a physician-assessed low or intermediate pretest risk of malignancy based upon 1 or more of the following:
 - Individual is low risk (<10%): Nodules <10mm with <10 pack/year smoking history
 - Individual is intermediate risk (10-60%): Nodules 10-30mm with 10 to 60 pack/year smoking history
 - Individual has had a bronchoscopy that is non-diagnostic (actionable benign or malignant diagnosis cannot be reached)
 - The results from the Percepta Bronchial Genomic Classifier test will be utilized to determine whether computerized tomography (CT) surveillance is appropriate in lieu of further invasive biopsies or surgical procedures as outlined **below**:

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Pre-Test Risk: Post-Test Diagnostic Strategy:

Intermediate Intermediate Proceed to further work up

Intermediate Low Risk CT surveillance
Low Risk Low Risk CT surveillance
Low Risk Very Low Risk CT surveillance

- The test is ordered by physician certified in Percepta Certification and Training Registry (CTR)
- The individual is monitored for malignancy (suggested monitoring includes serial computerized tomography (CT) scans at 3 to 6, 9 to 12, and 18 to 24 months, using thin sections and non-contrast, low-dose techniques)
- The physician will report outcomes in all risk groups including those monitored initially and those who undergo immediate intervention
- Clinical management is consistent with the post-test diagnostic strategy described above in ≥80% of tested individuals
- The physician intends to act upon the test result
- FoundationOne CDx is medically necessary for All of the following:
 - Next Generation Sequencing (NGS) for Patients with Somatic (Acquired) and Germline (Inherited) Cancer may be covered for **1 or more** of the following:
 - Diagnostic testing of somatic (acquired) cancer when ALL of the following criteria are met
 - Patient is appropriate for testing as indicated by ALL of the following:
 - Patient has recurrent, relapsed, refractory, metastatic, or advanced stage III or IV cancer
 - Patient has not been previously tested with same test using next generation sequencing (NGS) for same cancer genetic content
 - Patient has decided to seek further cancer treatment (eg, therapeutic chemotherapy
 - Diagnostic testing of germline (inherited) cancer when ALL of the following criteria are met:
 - Patient is appropriate for testing as indicated by **ALL** of the following:
 - Patient has ovarian or breast cancer
 - Patient has clinical indication for germline (inherited) testing for hereditary breast or ovarian cancer.
 - Patient has risk factor for germline (inherited) breast or ovarian cancer.
 - Patient has not been previously tested with same germline test using next generation sequencing (NGS) for same germline genetic content
- Bone Marrow Targeted Genomic Sequencing by Trusight for Acute Myeloid Leukemia is medically necessary for All of the following:
 - MolDX: Next-Generation Sequencing Lab-Developed Tests for Myeloid Malignancies and Suspected Myeloid Malignancies may be covered for ALL of the following:
 - Test specifically indicated for patient known to have myeloid malignancy at time of testing
 - Patient with appropriate condition, as indicated by 1 or more of the following:
 - o Acute myeloid leukemia
 - Myelodysplastic syndrome
 - Myeloproliferative neoplasms
 - Suspected, but not confirmed, diagnosis of myeloid malignancy and ALL of the following:
 - Undefined cytopenia for greater than 4 months
 - Other possible causes have been reasonably excluded
 - Assay performed includes at least minimum genes and positions indicated for its intended use
 - o Testing performed on **1 or more** of the following:

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- Bone marrow biopsy
- Bone marrow aspirate
- Bone marrow clot
- Peripheral blood sample
- Extramedullary site suspected of harboring myeloid malignancy
- Mammaprint is covered upon request.
- Oncotype DX Breast Cancer Assay with DCIS recurrence score is medically necessary when All the following clinical conditions are met:
 - Pathology (excisional or core biopsy) reveals ductal carcinoma in situ of the breast (no pathological evidence of invasive disease)
 - FFPE specimen with at least 0.5 mm of DCIS length
 - Individual is a candidate for and is considering breast conserving surgery alone as well as breast conserving surgery combined with adjuvant radiation therapy
 - Test result will be used to determine treatment choice between surgery alone vs. surgery with radiation therapy
 - Individual has not received and is not planning on receiving a mastectomy
- Decipher® may be covered for All of the following:
 - Individual has localized or biochemically recurrent adenocarcinoma of prostate (ie, no clinical evidence of metastasis)
 - Individual has estimated life expectancy of greater than or equal to 10 years.
 - Individual is candidate for and considering (or being considered for) 1 or more of the following:
 - Conservative management, yet would be eligible for definitive therapy (radical prostatectomy, radiation, or brachytherapy)
 - Radiation therapy, yet would be eligible for addition of brachytherapy boost
 - Radiation therapy, yet would be eligible for addition of short-term androgen deprivation therapy (ADT)
 - Radiation therapy with short-term ADT, yet would be eligible for use of long-term ADT
 - Radiation with standard ADT, yet would be eligible for systemic therapy intensification using next-generation androgen signaling inhibitors or chemotherapy
 - Observation post-prostatectomy, yet would be eligible for addition of post-operative adjuvant radiotherapy
 - Salvage radiotherapy post-prostatectomy, yet would be eligible for addition of ADT
 - Assay performed on formalin-fixed paraffin embedded (FFPE) prostate biopsy tissue with at least 0.5 mm of linear tumor diameter or FFPE tissue from prostate resection specimen.
 - Result will be used to determine treatment according to established practice guidelines.
 - Individual has not received pelvic radiation or ADT prior to biopsy or prostate resection specimen.
 - Individual will be monitored for disease progression according to established standards of care
- OncotypDX for Prostate may be covered by All of the following:
 - Individual has localized or biochemically recurrent adenocarcinoma of prostate (ie, no clinical evidence of metastasis).
 - Individual has estimated life expectancy of greater than or equal to 10 years.
 - Individual is candidate for and considering (or being considered for) 1 or more of the following:
 - Conservative management, yet would be eligible for definitive therapy (radical prostatectomy, radiation, or brachytherapy)
 - Radiation therapy, yet would be eligible for addition of brachytherapy boost
 - Radiation therapy, yet would be eligible for addition of short-term androgen deprivation therapy (ADT)
 - Radiation therapy with short-term ADT, yet would be eligible for use of longterm ADT
 - Radiation with standard ADT, yet would be eligible for systemic therapy intensification using next-generation androgen signaling inhibitors or chemotherapy
 - Observation post-prostatectomy, yet would be eligible for addition of postoperative adjuvant radiotherapy
 - Salvage radiotherapy post-prostatectomy, yet would be eligible for addition of ADT

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- Assay performed on formalin-fixed paraffin embedded (FFPE) prostate biopsy tissue with at least 0.5 mm of linear tumor diameter or FFPE tissue from prostate resection specimen.
- Result will be used to determine treatment according to established practice guidelines.
- Individual has not received pelvic radiation or ADT prior to biopsy or prostate resection specimen.
- Individual will be monitored for disease progression according to established standards of care.
- Prolaris® may be covered for ALL of the following:
 - Needle biopsy with localized adenocarcinoma of prostate (no clinical evidence of metastasis or lymph node involvement)
 - Formalin fixed paraffin-embedded (FFPE) prostate biopsy specimen with at least 0.5 mm of cancer length
 - Individual stage as indicated by 1 or more of the following:
 - Very Low-Risk Disease as indicated by ALL of the following
 - o T1c ≤ 6
 - o Gleason Score ≤ 6
 - o PSA ≤ 10 ng/mL
 - Less than 3 prostate cores with tumor
 - o Less than or equal to 50% tumor in any core
 - PSA density of < 0.15 ng/mL/g)
 - Test is ordered by physician certified in Myriad Prolaris[™] Certification and Training Registry (CTR)
 - Low-Risk Disease with ALL of the following:
 - o T1-T2a ≤ 6
 - Gleason Score ≤ 6
 - o PSA ≤ 10 ng/mL
 - Test is ordered by physician certified in Myriad Prolaris™ Certification and Training Registry (CTR)
 - Favorable Intermediate Risk Disease indicated by **ALL** of the following:
 - Predominant Gleason grade 3 (ie, Gleason score 3+4 = 7)
 - Percentage of positive cores < 50%
 - No more than 1 NCCN intermediate-risk factor (NCCN intermediate-risk factors include T2b to T2c, Gleason score 7, and PSA 10 to 20 ng/mL)
 - Individual has estimated life expectancy of greater than or equal to 10 years.
 - Individual is candidate for and is considering conservative therapy and yet would be eligible for definitive therapy (radical prostatectomy, radiation therapy, or brachytherapy).
 - Result will be used to determine treatment between definitive therapy and conservative management.
 - Individual has not received pelvic radiation or androgen deprivation therapy prior to biopsy.
 - Individual is monitored for disease progression according to established standard of care
- ProMark[®] Risk Score may be covered for All of the following:
 - Needle biopsy with localized adenocarcinoma of prostate (no clinical evidence of metastasis or lymph node involvement)
 - Individual stage as indicated by 1 or more of the following:
 - Very Low-Risk Disease as indicated by **ALL** of the following:
 - o T1c ≤ 6
 - o Gleason Score ≤ 6
 - o PSA ≤ 10 ng/mL
 - Less than 3 prostate cores with tumor
 - Less than or equal to 50% cancer in any core
 - PSA density of < 0.15 ng/mL/g)
 - Low-Risk Disease with **ALL** of the following:
 - o T1-T2a ≤ 6
 - o Gleason Score ≤ 6

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- o PSA ≤ 10 ng/mL
- Individual has estimated life expectancy of greater than or equal to 10 years.
- Individual is candidate for and is considering conservative therapy and yet would be eligible for definitive therapy (radical prostatectomy, radiation therapy, or brachytherapy).
- Individual has not received pelvic radiation or androgen deprivation therapy prior to biopsy.
- Test is ordered by physician certified in Metamark Genetics Certification and Training Registry (CTR).
- Individual is monitored for disease progression according to established standard of care
- ExoDX Prostate (EPI, ExosomeDx Prostate, IntelliScore) is considered medically necessary once in an individual's lifetime with 1 or more of the following criteria:
 - Individual with PSA > 3.0 ng/mL with or without previous benign prostate biopsy
 - Individual with Digital rectal exam suspicious for cancer
- o DecisionDx- Uveal Melanoma (UM) is covered with All of the following:
 - Individual has confirmed diagnosis of uveal melanoma
 - Individual has no evidence of metastatic disease
- Signatera (liquid biopsy minimal residual disease) testing is considered medically necessary for 1 or more of the following:
 - Individual previously diagnosed with Colorectal cancer
- CSF3R gene is covered for individual with ALL of the following:
 - For tests indicated in patients whom are known to have a MYELOID malignancy at the time of testing, NCD 90.2 applies
 - The patient has a diagnosis of AML, MDS, or MPN unless classified as refractory and/or metastatic cancers and fulfil the NCD 90.2 criteria
 - The test has satisfactorily completed a TA by MolDX® for the stated indications of the test.
 - The assay performed includes at least the minimum genes and positions indicated for its intended use, as described in an associated coverage Article or found in the TA forms
 - For patients that do not have a diagnosis of a MYELOID malignancy, where one is suspected, the patient must have an undefined cytopenia for greater than 4 months, when other possible causes have been reasonably excluded.
 - Testing may be performed on bone marrow biopsies, bone marrow aspirates, bone marrow clots, peripheral blood samples, or extramedullary sites suspected of harboring a MYELOID malignancy.
 - The test in question will be non-covered if:
 - Another NGS test was performed on the same surgical specimen/ blood draw (specimen obtained on the same date of service).
 - Testing falls within scope of NCD 90.2 and has been tested with the same test for the same genetic content.
- DermTech Pigmented Lesion Assay (PLA) meets criteria for All of the following:
 - Diagnosis of melanoma is being considered for pigmented skin lesion.
 - Test ordered by clinician who evaluates pigmented skin lesions and performs biopsies
 - Pigmented skin lesion meets ALL of the following characteristics:
 - One or more ABCDE criteria (asymmetry, border, color, diameter, evolving)[D]
 - Primary melanocytic skin lesions between 5 mm and 19 mm
 - Located where skin is intact (ie, non-ulcerated or non-bleeding lesions)
 - Does not contain scar
 - Was not previously biopsied
 - Not located in area of psoriasis, eczema, or similar skin condition
 - Not clinically diagnosed as melanoma (or clinical suspicion is not sufficiently high that treating clinician believes melanoma is more likely diagnosis than not)
 - Located in area other than palms of hands, soles of feet, nails, mucous membranes, or hair covered areas that cannot be trimmed

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- Ordering clinician plans (at time of ordering test) to continue to monitor skin lesion for changes if test is negative.
- Record contains photograph of lesion at time Pigmented Lesion Assay is ordered to allow for appropriate evaluation in subsequent follow-up.
- Ordering physician clearly documents site on patient's body of lesion.
- ClonoSEQ testing is considered medically necessary for individuals with 1 or more of the following:
 - acute lymphocytic leukemia (ALL)
 - multiple myeloma (MM)
 - chronic lymphoblastic leukemia (CLL)
 - B-Cell Lymphoma
- Breast Cancer Index (BCI) testing is considered medically necessary to assess the risk for recurrence in an individual when AII of the following criteria are met:
 - Individual has undergone surgery and/or full pathological staging prior to testing
 - There is no evidence of distant metastatic breast cancer
 - Breast cancer is nonmetastatic (node negative) or with 1-3 involved ipsilateral axillary lymph nodes
 - Breast tumor is estrogen receptor and/or progesterone receptor positive
 - Breast tumor is HER2 receptor negative
 - Postmenopausal or 50 years of age
 - Patient is a candidate for chemotherapy or endocrine therapy
 - Adjuvant chemotherapy is being considered and this testing is being ordered to assess recurrence risk to guide decision making as to whether or not adjuvant chemotherapy will be utilized
 - No more than one predictive Gene Expression Test for the same breast tumor has been performed
- PGDx, Genomics solid tumor gene panel is considered medically necessary for ALL of the following:
 - Testing meets National Coverage Determination 90.2, as indicated by ALL of the following:
 - Individual diagnosed with **1 or more** of the following:
 - o Recurrent cancer
 - o Relapsed cancer
 - o Refractory cancer
 - o Metastatic cancer
 - Advanced cancer (stage III or IV)
 - Individual not previously tested by same test for same genetic content
 - Individual seeking further treatment
 - Test has satisfactorily completed technical assessment by MolDX® for stated indications of test
 - Assay performed includes ALL of the following:
 - At least minimum genes and genomic positions required for identification of clinically relevant FDA-approved therapies
 - Companion diagnostic biomarker as well as other biomarkers known to be necessary for clinical decision making for its intended use that can be reasonably detected by test
- o BDX-XL2 may be covered if ALL of the following are met:
 - Individual is at least 40 years of age
 - Individual has lung nodule of diameter 8 to 30 mm
 - Pre-test risk of cancer, as determined by Mayo risk prediction algorithm, is 50% or less
- Guardant360® CDx comprehensive Liquid Biopsy is medically necessary with All of the following:
 - Solid tumor or hematologic tumor type with one or more of the following:
 - Tissue block if available
 - Liquid biopsy if tissue not possible
 - Repeat testing on a new tissue or liquid biopsy for progressive or relapse disease.
- o FoundationOne® Heme may be covered if 1 or more of the following are met:
 - Solid tumor tsting where fusion detection is desired.
 - Hematologic malignancies where fusion detection is desired.
 - Sacromas where fusion detection is desired.

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Pathognomic Criteria, Major Criteria and Minor Criteria definitions

Pathognomonic criteria:

- Mucocutaneous lesions:
 - o Trichilemmomas, facial
 - Acral keratoses
 - Papillomatous lesions
 - Mucosal lesions
- Adult Lhermitte-Duclos disease (LDD)(cerebellar tumors)

Major criteria:

- Breast carcinoma
- Follicular thyroid cancer
- Macrocephaly (eg, 97th percentile) (megalocephaly)
- Endometrial cancer

Minor criteria:

- Other thyroid lesions (eg, goiter, adenomas)
- Mental retardation (ie, IQ 75)
- GI hamartomas
- · Fibrocystic disease of the breast
- Lipomas
- Fibromas
- GU tumors (especially renal cell carcinoma), GU structural manifestations
- Uterine fibroids or malformation
- Colon cancer,
- Esophageal glycogenic acanthosis,
- · Papillary or follicular variant of papillary thyroid cancer,
- Testicular lipomatosis,
- Vascular anomalies (including multiple intracranial developmental venous anomalies)

Effective 2/28/2023, genetic panels of not more than 75 genes are approved for cancer management and treatment. Please disregard any exceptions below that contradict this.

The following genetic panels are considered **not medically necessary** for any use other than those indicated in clinical criteria, to include but not limited to:

- 4K score
- Ambry's PCDNext panel
- Amsterdam
- Archer DX FusionPlex Kits for blood cancer assays, oncology Research Panel, Thyroid Panel, Solid Tumor Panel, ALK, RET, ROS1 Panel, Sarcoma Panel, NTRK Panel, FGFR Panel, and My Fusion Plex kit
- bioTheranostics Cancer Type ID
- BluePrint™ (also referred to as "80-gene profile")
- Bone Marrow Failure Syndrome
- Breast Cancer Gene Expression Ratio (Theros H/I)
- BreastNext panel,
- BreastOncPX™
- BreastPRS
- Brevagen
- CancerNext Genetic Testing
- Caris Life Sciences panels

- Chemo FX Assay test Precision Therapeutics
- Chromosome 3 Gene Test for myeloid disorders
- Circulating microRNAs (e.g., miR-1, miR-16, miR-26a, miR-27a, and miR-29a, miR-133a, and miR-199a-5p; not an all-inclusive list)
 - Oncology (thyroid), microRNA profiling by RT-PCR of 10 microRNA sequences, utilizing fine needle aspirate, algorithm reported as a positive or negative result for moderate to high risk of malignancy
 - Oncology (colorectal), microRNA, RT-PCR expression profiling of miR-31-3p, formalin-fixed paraffin-embedded tissue, algorithm reported as an expression score
 - MLH1 (mutL homolog 1) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) mRNA sequence analysis (List separately in addition to code for primary procedure)
 - MSH2 (mutS homolog 2) (eg, hereditary colon cancer, Lynch syndrome) mRNA sequence analysis (List separately in addition to code for primary procedure)

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- MSH6 (mutS homolog 6) (eg, hereditary colon cancer, Lynch syndrome) mRNA sequence analysis (List separately in addition to code for primary procedure)
- PMS2 (PMS1 homolog 2, mismatch repair system component) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) mRNA sequence analysis (List separately in addition to code for primary procedure)
- Hereditary colon cancer (Lynch syndrome), targeted mRNA sequence analysis panel (MLH1, MSH2, MSH6, PMS2) (List separately in addition to code for primary procedure)
- ColoSeq
- Colonext
- ColonSentry
- ConfirmMDx
- CxBladder
- DecisionDx: all Decision DX tests including Cutaneous Melanoma, Esophageal Cancer, Mesothelioma, and Glioblastoma Multiforme
- DetermaRX
- Digene HPV test
- Duke University Colon Hotspot NGS panel
- Exome Sequence Analysis
- GeneDX OncoGene Dx panel
- Genome Sequence Analysis
- Genomic grade index,
- Immunoscore Colon test
- Insight® DX Breast Cancer Profile
- Know error system (Forensic testing)
- LungLB®
- MammaTyper®
- Mammostrat
- Mammostrat
- Melaris test
- Microculture Kinetic (MiCK) Apoptosis Assays (e.g., Correct Chemo assay)

- MyPRS test
- myPath
- myRisk
- NexCourse® Breast IHC4
- NPI+ and Randox Breast Cancer Array
- NuvoSelect™ eRx 200-Gene Assay
- Oncomap™ ExTra
- Oncotype DX for Colon Cancer
- Oncotype DX for lobular carcinoma in situ (LCIS)
- OnDose
- OvaNext Next Generation Sequencing Panel
- PancraGen panel
- Pathwork Tissue of Origin test or the Pathwork Tissue of Origin test kit
- Percepta Bronchial Genomic Classifier
- Pervenio Lung RS panel
- PreOvar test
- Prosigna Breast Panel
- Rotterdam
- SelectMDx
- SYMPHONY™ Genomic Breast Cancer Profile
- Target Now
- TargetPrint®
- The 41-gene signature assay.
- The 76-gene "Rotterdam signature" assay
- TheraGuide 5-FU
- TheraPrint ™
- THEROS Breast Cancer Index
- VeriStrat
- VistaSeg panel
- Whole Exome Sequencing (WES);
- Whole Genome Sequencing

The following genes are considered **not medically necessary** for any use other than those indicated in clinical criteria, to include but not limited to:

- ATK1
- AXIN2
- BAG1
- BARD1
- BIRC4
- BDX-XL2
- BRIP1
- CEACAM6
- CDC6
- CDK2AP1

- CDK4
- CDKN2A
- CSF1R
- CTNNA1
- CTNNB1
- DDR2
- ELANE(ELA2 test),
- ERBB2
- ERBB3
- ERBB4
- ESD

- FBXW7
- FGFR1
- FGFR2
- FGFR3
- FH (fumarate hydratase)
- FUT3
- GALNT12
- GNAQ
- GNAS
- GREM1
- Home genetic testing

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- HRAS
- IDH1/2 Gene
- IGK (Immunoglobulin Kappa Light Chain Locus)
- IL11
- KDR
- KIR TYPING (killer immunoglobulin like receptor)
- LCK
- MAP2K1
- MET amplifications (e.g., cMET)
 - MITF (microphthalmiaassociated transcription factor)
 - MRE11
 - MRE11A

- MYCN gene
- NBN
- NOTCH1
- PAM50
- PDGFR
- PIK3CA
- POLD1
- POLE
- PRKAR1A
- PCA3 Gene
- UpM3
- PTCH1
- RAD50
- RAD51C
- RAD51D

- Repeat/Duplicative genetic testing
- RND3
- ROS1 gene mutations
- RPS20
- SEPT9
- SH3BGR
- TCD
- TERT
- TPB
- TRB@/TRG@
- WNT3A
- XRCC2
- YAP

Coding:

Medically necessary with criteria:

Coding	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 (BRCA1, 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 (BRCA1, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; full sequence analysis		
81166	BRCA1 (BRCA1, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; full duplication/deletion analysis (ie, detection of large gene rearrangements)		
81170	ABL1 (ABL proto-oncogene 1, non-receptor tyrosine kinase) (e.g., acquired imatinib tyrosine kinase inhibitor resistance), gene analysis, variants in the kinase domain		
81201	APC (adenomatous polyposis coli) (eg, familial adenomatosis polyposis [FAP], attenuated FAP) gene analysis; full gene sequence		
81202	APC (adenomatous polyposis coli) (eg, familial adenomatosis polyposis [FAP], attenuated FAP) gene analysis; known familial variants		
81203	APC (adenomatous polyposis coli) (eg, familial adenomatosis polyposis [FAP], attenuated FAP) gene analysis; duplication/deletion variants		
81206	BCR/ABL1 (t(9;22)) (eg, chronic myelogenous leukemia) translocation analysis; major breakpoint, qualitative or quantitative		
81207	BCR/ABL1 (t(9;22)) (eg, chronic myelogenous leukemia) translocation analysis; minor breakpoint, qualitative or quantitative		
81208	BCR/ABL1 (t(9;22)) (eg, chronic myelogenous leukemia) translocation analysis; other breakpoint, qualitative or quantitative		
81210	BRAF (B-Raf proto-oncogene, serine/threonine kinase) (eg, colon cancer, melanoma), gene analysis, V600 variant(s)		
81212	BRCA1 (BRCA1, DNA repair associated), BRCA2 (BRCA2, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; 185delAG, 5385insC, 6174delT		

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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	
81217	BRCA2 (BRCA2, DNA repair associated) (eg, hereditary breast and ovarian cancer) gene analysis; known familial variant	
81218	CEBPA (CCAAT/enhancer binding protein [C/EBP], alpha) (e.g., acute myeloid leukemia), gene analysis, full gene sequence	
81219	CALR (calreticulin) (eg, myeloproliferative disorders), gene analysis, common variants in exon 9	
81235	EGFR (epidermal growth factor receptor) (eg, non-small cell lung cancer) gene analysis, common variants (eg, exon 19 LREA deletion, L858R, T790M, G719A, G719S, L861Q)	
81245	FLT3 (fms-related tyrosine kinase 3)	
81246	FLT3 (fms-related tyrosine kinase 3) (eg, acute myeloid leukemia), gene analysis; tyrosine kinase domain (TKD) variants (eg, D835, I836)	
81261	IGH@ (Immunoglobulin heavy chain locus) (eg, leukemias and lymphomas, B-cell), gene rearrangement analysis to detect abnormal clonal population(s); amplified methodology (eg, polymerase chain reaction)	
81262	IGH@ (Immunoglobulin heavy chain locus) (eg, leukemias and lymphomas, B-cell), gene rearrangement analysis to detect abnormal clonal population(s); direct probe methodology (eg, Southern blot)	
81263	IGH@ (Immunoglobulin heavy chain locus) (eg, leukemia and lymphoma, B-cell), variable region somatic mutation analysis	
81270	JAK2 (Janus kinase 2) (eg, myeloproliferative disorder) gene analysis, p.Val617Phe (V617F) variant	
81273	KIT (v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog) (eg, mastocytosis), gene analysis, D816 variant(s)	
81275	KRAS (v-Ki-ras2 Kirsten rat sarcoma viral oncogene) (e.g., carcinoma) gene analysis, variants in codons 12 and 13	
81276	KRAS (Kirsten rat sarcoma viral oncogene homolog) (e.g., carcinoma) gene analysis; additional variant(s) (e.g., codon 61, codon 146)	
81292	MLH1 (mutL homolog 1, colon cancer, nonpolyposis type 2) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis	
81294	MLH1 (mutL homolog 1, colon cancer, nonpolyposis type 2) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants	
81295	MSH2 (mutS homolog 2, colon cancer, nonpolyposis type 1) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis	
81297	MSH2 (mutS homolog 2, colon cancer, nonpolyposis type 1) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants	
81298	MSH6 (mutS homolog 6 [E. coli]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; full sequence analysis	
81300	MSH6 (mutS homolog 6 [E. coli]) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) gene analysis; duplication/deletion variants	
81307	PALB2 (partner and localizer of BRCA2) (eg, breast and pancreatic cancer) gene analysis; full gene sequence	
81308	PALB2 (partner and localizer of BRCA2) (eg, breast and pancreatic cancer) gene analysis; known familial variant	

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Microsatellite instability analysis (eg, hereditary non-polyposis colorectal cancer, Lynch syndror of markers for mismatch repair deficiency (eg, BAT25, BAT26), includes comparison of neoplas and normal tissue, if performed MYD88 (myeloid differentiation primary response 88) (eg, Waldenstrom's macroglobulinemia, lymphoplasmacytic leukemia) gene analysis, p.Leu265Pro (L265P) variant NRAS (neuroblastoma RAS viral [v-ras] oncogene homolog) (e.g., colorectal carcinoma), gene analysis, variants in exon 2 (e.g., codons 12 and 13) and exon 3 (e.g., codon 61) PML/RARalpha, (t(15;17)), (promyelocytic leukemia/retinoic acid receptor alpha) (eg, promyelo leukemia) translocation analysis; common breakpoints (eg, intron 3 and intron 6), qualitative or quantitative PML/RARalpha, (t(15;17)), (promyelocytic leukemia/retinoic acid receptor alpha) (eg, promyelo leukemia) translocation analysis; single breakpoint (eg, intron 3, intron 6 or exon 6), qualitative quantitative PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; full sequence analysis PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; known familial variants PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; duplication/deletion variants PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; full sequence analysis PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; kuplication/deletion variant PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; duplication/deletion variant MPL (MPL proto-oncogene, thrombopoietin receptor) (eg, myeloproliferative disorder) gene analysis; common variants (eg, W515A, W515K, W515E)	
lymphoplasmacytic leukemia) gene analysis, p.Leu265Pro (L265P) variant NRAS (neuroblastoma RAS viral [v-ras] oncogene homolog) (e.g., colorectal carcinoma), gene analysis, variants in exon 2 (e.g., codons 12 and 13) and exon 3 (e.g., codon 61) PML/RARalpha, (t(15;17)), (promyelocytic leukemia/retinoic acid receptor alpha) (eg, promyelo leukemia) translocation analysis; common breakpoints (eg, intron 3 and intron 6), qualitative or quantitative PML/RARalpha, (t(15;17)), (promyelocytic leukemia/retinoic acid receptor alpha) (eg, promyelo leukemia) translocation analysis; single breakpoint (eg, intron 3, intron 6 or exon 6), qualitative quantitative PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; full sequence analysis PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; known familial variants PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; duplication/deletion variants PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; known familial variant PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; known familial variant PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; known familial variant PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; known familial variant PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; duplication/deletion variant	
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leukemia) translocation analysis; single breakpoint (eg, intron 3, intron 6 or exon 6), qualitative 81317 PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; full sequence analysis 81318 PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; known familial variants 81319 PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; duplication/deletion variants 81321 PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; full sequence analysis 81322 PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; known familial variant 81323 PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; duplication/deletion variant 81338 MPL (MPL proto-oncogene, thrombopoietin receptor) (eg, myeloproliferative disorder) gene	ytic
cancer, Lynch syndrome) gene analysis; full sequence analysis PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; known familial variants PMS2 (postmeiotic segregation increased 2 [S. cerevisiae]) (eg, hereditary non-polyposis color cancer, Lynch syndrome) gene analysis; duplication/deletion variants PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; full sequence analysis PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; known familial variant PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; duplication/deletion variant PTEN (phosphatase and tensin homolog) (eg, Cowden syndrome, PTEN hamartoma tumor syndrome) gene analysis; duplication/deletion variant MPL (MPL proto-oncogene, thrombopoietin receptor) (eg, myeloproliferative disorder) gene	
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syndrome) gene analysis; duplication/deletion variant 81338 MPL (MPL proto-oncogene, thrombopoietin receptor) (eg, myeloproliferative disorder) gene	
analysis, sommen variants (e.g., vvo tox, vvo tox, vvo tox)	
81339 MPL (MPL proto-oncogene, thrombopoietin receptor) (eg, myeloproliferative disorder) gene analysis; sequence analysis, exon 10	
81351 TP53 (tumor protein 53) (eg, Li-Fraumeni syndrome) gene analysis; full gene sequence	
81352 TP53 (tumor protein 53) (eg, Li-Fraumeni syndrome) gene analysis; targeted sequence analysis (eg, 4 oncology)	
81353 TP53 (tumor protein 53) (eg, Li-Fraumeni syndrome) gene analysis; known familial variant	
81401 Molecular pathology procedure, Level 2 – MUTYH, CBFB/MYH11, EML4/ALK	
81403 Molecular pathology procedure, Level 4, targeted sequence analysis – EPCAM, VHL	
81404 Molecular pathology procedure, Level 5, targeted sequence analysis - KIR, STK11, MEN1	
Molecular pathology procedure, Level 6 (eg, analysis of 6-10 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 11-25 exons, regionally targeted cytogenomic array analysis) - STK11, RET, SMAD4	
Molecular pathology procedure, Level 7 (eg, analysis of 11-25 exons by DNA sequence analysis, mutation scanning or duplication/deletion variants of 26-50 exons, cytogenomic array analysis for neoplasia) - CDH1, MUTYH	
81408 Molecular pathology procedure, Level 9 (eg, analysis of >50 exons in a single gene by DNA sequence analysis) - ATM	

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81432	Hereditary breast cancer-related disorders (e.g., hereditary breast cancer, hereditary ovarian cancer, hereditary endometrial cancer); genomic sequence analysis panel, must include sequencing of at least 14 genes, including ATM, BRCA1, BRCA2, BRIP1, CDH1, MLH1, MSH2, MSH6, NBN, PALB2, PTEN, RAD51C, STK11, and TP53	
81433	Hereditary breast cancer-related disorders (e.g., hereditary breast cancer, hereditary ovarian cancer, hereditary endometrial cancer); duplication/deletion analysis panel, must include analyses for BRCA1, BRCA2, MLH1, MSH2, and STK11	
81435	Hereditary colon cancer disorders (eg, Lynch syndrome, PTEN hamartoma syndrome, Cowden syndrome, familial adenomatosis polyposis); genomic sequence analysis panel, must include sequencing of at least 10 genes, including APC, BMPR1A, CDH1, MLH1, MSH2, MSH6, MUTYH, PTEN, SMAD4, and STK11	
81436	Hereditary colon cancer syndromes (eg, Lynch syndrome, familial adenomatosis polyposis); duplication/deletion gene analysis panel, must include analysis of at least 8 genes, including APC, MLH1, MSH2, MSH6, PMS2, EPCAM, CHEK2, and MUTYH	
81437	Hereditary neuroendocrine tumor disorders (eg, medullary thyroid carcinoma, parathyroid carcinoma, malignant pheochromocytoma or paraganglioma); genomic sequence analysis panel, must include sequencing of at least 6 genes, including MAX, SDHB, SDHC, SDHD, TMEM127, and VHL	
81438	Hereditary neuroendocrine tumor disorders (eg, medullary thyroid carcinoma, parathyroid carcinoma, malignant pheochromocytoma or paraganglioma); duplication/deletion analysis panel, must include analyses for SDHB, SDHC, SDHD, and VHL	
81445	Targeted genomic sequence analysis panel, solid organ neoplasm, DNA analysis, 5-50 genes (eg, ALK, BRAF, CDKN2A, EGFR, ERBB2, KIT, KRAS, NRAS, MET, PDGFRA, PDGFRB, PGR, PIK3CA, PTEN, RET), interrogation for sequence variants and copy number variants or rearrangements, if performed	
81451	Hematolymphoid neoplasm or disorder, genomic sequence analysis panel, 5-50 genes, interrogation for sequence variants, and copy number variants or rearrangements, or isoform expression or mRNA expression levels, if performed; RNA analysis	
81455	Targeted genomic sequence analysis panel, solid organ or hematolymphoid neoplasm, DNA analysis, and RNA analysis when performed, 51 or greater genes (eg, ALK, BRAF, CDKN2A, CEBPA, DNMT3A, EGFR, ERBB2, EZH2, FLT3, IDH1, IDH2, JAK2, KIT, KRAS, MLL, NPM1, NRAS, MET, NOTCH1, PDGFRA, PDGFRB, PGR, PIK3CA, PTEN, RET), interrogation for sequence variants and copy number variants or rearrangements, if performed	
81479	Unlisted molecular pathology procedure - RB1 GENE, ProMark	
81518	Oncology (breast), mRNA, gene expression profiling by real-time RT-PCR of 11 genes (7 content and 4 housekeeping), utilizing formalin-fixed paraffin-embedded tissue, algorithms reported as percentage risk for metastatic recurrence and likelihood of benefit from extended endocrine therapy – Breast Cancer Index	
81519	Oncology (breast), mRNA, gene expression profiling by real-time RT-PCR of 21 genes, utilizing formalin-fixed paraffin embedded tissue, algorithm reported as recurrence score	
81521	Oncology (breast), mRNA, microarray gene expression profiling of 70 content genes and 465 housekeeping genes, utilizing fresh frozen or formalin-fixed paraffin-embedded tissue, algorithm reported as index related to risk of distant metastasis (Can be used for MammaPrint)	
81522	Oncology (breast), mRNA, gene expression profiling by RT-PCR of 12 genes (8 content and 4 housekeeping), utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as recurrence risk score (EndoPredict)	

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81523	Oncology (breast), mRNA, next-generation sequencing gene expression profiling of 70 content genes and 31 housekeeping genes, utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as index related to risk to distant metastasis (MammaPrint)		
81541	Oncology (prostate), mRNA gene expression profiling by real-time RT-PCR of 46 genes (31 content and 15 housekeeping), utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as a disease-specific mortality risk score		
81542	Oncology (prostate), mRNA, microarray gene expression profiling of 22 content genes, utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as metastasis risk score		
81546	Oncology (thyroid), mRNA, gene expression analysis of 10,196 genes, utilizing fine needle aspirate, algorithm reported as a categorical result (eg, benign or suspicious) (Afirma)		
81599	Unlisted multianalyte assay with algorithmic analysis (PathfinderTG)		
86386	Nuclear Matrix Protein 22 (NMP22), qualitative – May also be addressed by Avalon Lab Management		
0005U	Oncology (prostate) gene expression profile by real-time RT-PCR of 3 genes (ERG, PCA3, and SPDEF), urine, algorithm reported as risk score - ExosomeDx® Prostate (IntelliScore)		
0016U	Oncology (hematolymphoid neoplasia), RNA, BCR/ABL1 major and minor breakpoint fusion transcripts, quantitative PCR amplification, blood or bone marrow, report of fusion not detected or detected with quantitation		
0026U	Oncology (thyroid), DNA and mRNA of 112 genes, next-generation sequencing, fine needle aspirate of thyroid nodule, algorithmic analysis reported as a categorical result ("Positive, high probability of malignancy" or "Negative, low probability of malignancy") (Thyroseq)		
0037U	Targeted genomic sequence analysis, solid organ neoplasm, DNA analysis of 324 genes, interrogation for sequence variants, gene copy number amplifications, gene rearrangements, microsatellite instability and tumor mutational burden (FoundationOne CDx™ (F1CDx))		
0040U	BCR/ABL1 (t(9;22)) (eg, chronic myelogenous leukemia) translocation analysis, major breakpoint, quantitative - MRDx BCR-ABL Test		
0045U	Oncology (breast ductal carcinoma in situ), mRNA, gene expression profiling by real-time RT-PCR of 12 genes (7 content and 5 housekeeping), utilizing formalin-fixed paraffinembedded tissue, algorithm reported as recurrence score (The Oncotype DX® Breast DCIS Score™ TesT)		
0047U	Oncology (prostate), mRNA, gene expression profiling by real-time RT-PCR of 17 genes (12 content and 5 housekeeping), utilizing formalin-fixed paraffin-embedded tissue, algorithm reported as a risk score - Oncotype DX Genomic Prostate Score		
0080U	Oncology (lung), mass spectrometric analysis of galectin-3-binding protein and scavenger receptor cysteine-rich type 1 protein M130, with five clinical risk factors (age, smoking status, nodule diameter, nodule-spiculation status and nodule location), utilizing plasma, algorithm reported as a categorical probability of malignancy (BDX-XL2, Biodesix®)		
0089U	Oncology (melanoma), gene expression profiling by RTqPCR, PRAME and LINC00518, superficial collection using adhesive patch(es) (Pigmented Lesion Assay (PLA), DermTech)		
0239U	Targeted genomic sequence analysis panel, solid organ neoplasm, cell-free DNA, analysis of 311 or more genes, interrogation for sequence variants, including substitutions, insertions, deletions, select rearrangements, and copy number variations (FoundationOne® Liquid CDx)		

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0242U	Targeted genomic sequence analysis panel, solid organ neoplasm, cell-free circulating DNA analysis of 55-74 genes, interrogation for sequence variants, gene copy number amplifications, and gene rearrangements – Guardant360 CDx	
0250U	Oncology (solid organ neoplasm), targeted genomic sequence DNA analysis of 505 genes, interrogation for somatic alterations (SNVs [single nucleotide variant], small insertions and deletions, one amplification, and four translocations), microsatellite instability and tumormutation burden (PGDx elio TM tissue complete)	
0287U	Oncology (thyroid), DNA and mRNA, next-generation sequencing analysis of 112 genes, fine needle aspirate or formalin-fixed paraffin-embedded (FFPE) tissue, algorithmic prediction of cancer recurrence, reported as a categorical risk result (low, intermediate, high) - ThyroSeq® CRC	
0326U	Targeted genomic sequence analysis panel, solid organ neoplasm, cell-free circulating DNA analysis of 83 or more genes, interrogation for sequence variants, gene copy number amplifications, gene rearrangements, microsatellite instability and tumor mutational burden - Guardant360®	
0340U	Oncology (pan-cancer), analysis of minimal residual disease (MRD) from plasma, with assays personalized to each patient based on prior next-generation sequencing of the patient's tumor and germline DNA, reported as absence or presence of MRD, with disease-burden correlation, if appropriate - Signatera	
0364U	Oncology (hematolymphoid neoplasm), genomic sequence analysis using multiplex (PCR) and next-generation sequencing with algorithm, quantification of dominant clonal sequence(s), reported as presence or absence of minimal residual disease (MRD) with quantitation of disease burden, when appropriate - ClonoSEQ	

Considered Not Medically Necessary:

Coding	Description			
81120	IDH1 (isocitrate dehydrogenase 1 [NADP+], soluble) (eg, glioma), common variants (eg, R132H, R132C)			
81121	IDH2 (isocitrate dehydrogenase 2 [NADP+], mitochondrial) (eg, glioma), common variants (eg, R140W, R172M)			
81264	IGK@ (Immunoglobulin kappa light chain locus) (eg, leukemia and lymphoma, B-cell), gene rearrangement analysis, evaluation to detect abnormal clonal population(s)			
81309	PIK3CA (phosphatidylinositol-4, 5-biphosphate 3-kinase, catalytic subunit alpha) (eg, colorectal and breast cancer) gene analysis, targeted sequence analysis (eg, exons 7, 9, 20)			
81314	PDGFRA (platelet-derived growth factor receptor, alpha polypeptide) (e.g., gastrointestinal stromal tumor [GIST]), gene analysis, targeted sequence analysis (e.g., exons 12, 18)			
81327	SEPT9 (Septin9) (eg, colorectal cancer) promoter methylation analysis			
81340	TRB@ (T cell antigen receptor, beta) (eg, leukemia and lymphoma), gene rearrangement analysis to detect abnormal clonal population(s); using amplification methodology (eg, polymerase chain reaction)			
81341	TRB@ (T cell antigen receptor, beta) (eg, leukemia and lymphoma), gene rearrangement analysis to detect abnormal clonal population(s); using direct probe methodology (eg, Southern blot)			
81342	TRG@ (T cell antigen receptor, gamma) (eg, leukemia and lymphoma), gene rearrangement analysis, evaluation to detect abnormal clonal population(s)			

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81345	TERT (telomerase reverse transcriptase) (eg, thyroid carcinoma, glioblastoma multiforme) gene analysis, targeted sequence analysis (eg, promoter region			
81402	Molecular pathology procedure, Level 3, gene rearrangement analysis, evaluation to detect abnormal clonal population			
81449	Targeted genomic sequence analysis panel, solid organ neoplasm, 5-50 genes (eg, ALK, BRAF, CDKN2A, EGFR, ERBB2, KIT, KRAS, MET, NRAS, PDGFRA, PDGFRB, PGR, PIK3CA, PTEN, RET), interrogation for sequence variants and copy number variants or rearrangements, if performed; RNA analysis			
81456	Targeted genomic sequence analysis panel, solid organ or hematolymphoid neoplasm or disorder, 51 or greater genes (eg, ALK, BRAF, CDKN2A, CEBPA, DNMT3A, EGFR, ERBB2, EZH2, FLT3, IDH1, IDH2, JAK2, KIT, KRAS, MET, MLL, NOTCH1, NPM1, NRAS, PDGFRA, PDGFRB, PGR, PIK3CA, PTEN, RET), interrogation for sequence variants and copy number variants or rearrangements, or isoform expression or mRNA expression levels, if performed; RNA analysis			
81552	Oncology (uveal melanoma), mRNA, gene expression profiling by real-time RT-PCR of 15 genes (12 content and 3 housekeeping), utilizing fine needle aspirate or formalin-fixed paraffin-embedded tissue, algorithm reported as risk of metastasis			
004011	Once leave (the graid) prints DNA profiling her DT DOD of 40 prints DNA common accountilining fine			
0018U	Oncology (thyroid), microRNA profiling by RT-PCR of 10 microRNA sequences, utilizing fine needle aspirate, algorithm reported as a positive or negative result for moderate to high risk of malignancy (ThyraMIR™)			
0069U	Oncology (colorectal), microRNA, RT-PCR expression profiling of miR-31-3p, formalin-fixed paraffin-embedded tissue, algorithm reported as an expression score (miR- <u>31</u> now [™] , GoPath Laboratories)			
0158U	MLH1 (mutL homolog 1) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) mRNA sequence analysis (List separately in addition to code for primary procedure) (CustomNext + RNA: <i>MLH1</i>)			
0159U	MSH2 (mutS homolog 2) (eg, hereditary colon cancer, Lynch syndrome) mRNA sequence analysis (List separately in addition to code for primary procedure) (CustomNext + RNA: <i>MSH2</i>)			
0160U	MSH6 (mutS homolog 6) (eg, hereditary colon cancer, Lynch syndrome) mRNA sequence analysis (List separately in addition to code for primary procedure) (CustomNext + RNA: MSH6)			
0161U	PMS2 (PMS1 homolog 2, mismatch repair system component) (eg, hereditary non-polyposis colorectal cancer, Lynch syndrome) mRNA sequence analysis (List separately in addition to code for primary procedure) (CustomNext + RNA: PMS2)			
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0162U	Hereditary colon cancer (Lynch syndrome), targeted mRNA sequence analysis panel (MLH1, MSH2, MSH6, PMS2) (List separately in addition to code for primary procedure) CustomNext + RNA: Lynch (MLH1, MSH2, MSH6, PMS2)
0288U	Oncology (lung), mRNA, quantitative PCR analysis of 11 genes (BAG1, BRCA1, CDC6, CDK2AP1, ERBB3, FUT3, IL11, LCK, RND3, SH3BGR, WNT3A) and 3 reference genes (ESD, TBP, YAP1), formalin-fixed paraffin-embedded (FFPE) tumor tissue, algorithmic interpretation reported as a recurrence risk score (DetermaRx™)
0261U	Oncology (colorectal cancer), image analysis with artificial intelligence assessment of 4 histologic and immunohistochemical features (CD3 and CD8 within tumor-stroma border and tumor core), tissue, reported as immune response and recurrence-risk score (Immunoscore®)
0317U	Oncology (lung cancer), four-probe FISH (3q29, 3p22.1, 10q22.3, 10cen) assay, whole blood, predictive algorithm-generated evaluation reported as decreased or increased risk for lung cancer (LungLB®)
0329U	Oncology (neoplasia), exome and transcriptome sequence analysis for sequence variants, gene copy number amplifications and deletions, gene rearrangements, microsatellite instability and tumor mutational burden utilizing DNA and RNA from tumor with DNA from normal blood or saliva for subtraction, report of clinically significant mutation(s) with therapy associations (Oncomap™ ExTra)
0342U	Oncology (pancreatic cancer), multiplex immunoassay of C5, C4, cystatin C, factor B, osteoprotegerin (OPG), gelsolin, IGFBP3, CA125 and multiplex electrochemiluminescent immunoassay (ECLIA) for CA19-9, serum, diagnostic algorithm reported qualitatively as positive, negative, or borderline (IMMray® PanCan-d)

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Specialty Association Guidelines; Government Regulations; Winifred S. Hayes, Inc; UpToDate; Literature Review; Specialty Advisors; National Coverage Determination (NCD); Local Coverage Determination (LCD).

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Special Notes: *

This medical policy expresses Sentara Health Plan's determination of medically necessity of services, and they are based upon a review of currently available clinical information. Medical policies are not a substitute for clinical judgment or for any prior authorization requirements of the health plan. These policies are not an explanation of benefits.

Medical policies can be highly technical and complex and are provided here for informational purposes. These medical policies are intended for use by health care professionals. The medical policies do not constitute medical advice or medical care. Treating health care professionals are solely responsible for diagnosis, treatment and medical advice. Sentara Health Plan members should discuss the information in the medical policies with their treating health care professionals. Medical technology is constantly evolving and these medical policies are subject to change without notice, although Sentara Health Plan will notify providers as required in advance of changes that could have a negative impact on benefits.

For specific tests not listed please refer to LCD: MolDX: Molecular Diagnostic Tests (MDT), L35025 <u>LCD - MolDX: Molecular Diagnostic Tests (MDT) (L35025) (cms.gov)</u> and the <u>DEX (dexzcodes.com)</u>

Keywords:

Acute myeloid leukemia, ALK, Analysis, autosomal recessive, BART, BCI, BCR-ABL mutation analysis, Bladder Tumor Marker, BMPR1A, Bone marrow, BRAF, BRCA1, BRCA2, BRCA, Breast cancer, Breast Cancer Index, CALR, Calreticulin Exon 9, cancer prevention, CBFB/MHY 11, CDH1, CEBPA, ClonoSEQ, Colaris, Colorectal cancer, CSF3R, Decipher, EGFR, Endopredict, Epidermal growth factor receptor, Familial Adenomatous Polyposis (FAP), FLDV, FLT3, gene mutation, gene, genetic test, Guardant 360, Guardant360 CDx, Hardy Zuckerman, HER2, Hereditary retinoblastoma, hereditary, IGH, Immuno Globulin Heavy Chain, JAK2, Juvenile polyposis syndrome, KIT Test, KRAS, Lymphoplasmacytic, Lynch syndrome, Macroglobulinemia, malignant diseases, MammaPrint, MAP, Medullary Thyroid Cancer, MEN1, MEN2, metaplastic, Multiple Endocrine Neoplasia, Mutation Analysis, MYD88, Myeloproliferative Leukemia, MYH-associated polyposis, NMP-22, NPM1, NRAS, Oncotype DX, Ovarian cancer, Pancreatic cancer, Pathfinder TG, PML/RAR Alpha, Prolaris, ProMark, Prostate, PSA, RB1, RET, Signatera, SMAD4, STK11, TP53, UroVysion, VHL, Von Hippel-Lindau syndrome, X-linked recessive

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