



## MEDICAL POLICY CENTER

### LCD FOR GENOMIC SEQUENCE ANALYSIS PANELS IN THE TREATMENT OF SOLID ORGAN NEOPLASMS (L37810)

#### *Contractor Information*

| Contractor Name                    | Contract Type       | Contract Number | Jurisdiction | State(s)                |
|------------------------------------|---------------------|-----------------|--------------|-------------------------|
| National Government Services, Inc. | MAC - Part A        | 06101 - MAC A   | J - 06       | Illinois                |
| National Government Services, Inc. | MAC - Part B        | 06102 - MAC B   | J - 06       | Illinois                |
| National Government Services, Inc. | MAC - Part A        | 06201 - MAC A   | J - 06       | Minnesota               |
| National Government Services, Inc. | MAC - Part B        | 06202 - MAC B   | J - 06       | Minnesota               |
| National Government Services, Inc. | MAC - Part A        | 06301 - MAC A   | J - 06       | Wisconsin               |
| National Government Services, Inc. | MAC - Part B        | 06302 - MAC B   | J - 06       | Wisconsin               |
| National Government Services, Inc. | A and B and HHH MAC | 13101 - MAC A   | J - K        | Connecticut             |
| National Government Services, Inc. | A and B and HHH MAC | 13102 - MAC B   | J - K        | Connecticut             |
| National Government Services, Inc. | A and B and HHH MAC | 13201 - MAC A   | J - K        | New York - Entire State |
| National Government Services, Inc. | A and B and HHH MAC | 13202 - MAC B   | J - K        | New York - Downstate    |
| National Government Services, Inc. | A and B and HHH MAC | 13282 - MAC B   | J - K        | New York - Upstate      |
| National Government Services, Inc. | A and B and HHH MAC | 13292 - MAC B   | J - K        | New York - Queens       |
| National Government Services, Inc. | A and B and HHH MAC | 14111 - MAC A   | J - K        | Maine                   |
| National Government Services, Inc. | A and B and HHH MAC | 14112 - MAC B   | J - K        | Maine                   |
| National Government Services, Inc. | A and B and HHH MAC | 14211 - MAC A   | J - K        | Massachusetts           |
| National Government Services, Inc. | A and B and HHH MAC | 14212 - MAC B   | J - K        | Massachusetts           |
| National Government Services, Inc. | A and B and HHH MAC | 14311 - MAC A   | J - K        | New Hampshire           |
| National Government Services, Inc. | A and B and HHH MAC | 14312 - MAC B   | J - K        | New Hampshire           |
| National Government Services, Inc. | A and B and HHH MAC | 14411 - MAC A   | J - K        | Rhode Island            |
| National Government Services, Inc. | A and B and HHH MAC | 14412 - MAC B   | J - K        | Rhode Island            |
| National Government Services, Inc. | A and B and HHH MAC | 14511 - MAC A   | J - K        | Vermont                 |

| Contractor Name                    | Contract Type       | Contract Number | Jurisdiction | State(s) |
|------------------------------------|---------------------|-----------------|--------------|----------|
| National Government Services, Inc. | A and B and HHH MAC | 14512 - MAC B   | J - K        | Vermont  |

### ***LCD Information*** **Document Information**

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Genomic Sequence Analysis Panels in the Treatment of Solid Organ Neoplasms

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### **CMS National Coverage Policy**

Language quoted from Centers for Medicare and Medicaid Services (CMS), National Coverage Determinations (NCDs) and coverage provisions in interpretive manuals is italicized throughout the policy. NCDs and coverage provisions in interpretive manuals are not subject to the Local Coverage Determination (LCD) Review Process (42 CFR 405.860[b] and 42 CFR 426 [Subpart D]). In addition, an administrative law judge may not review an NCD. See Section 1869(f)(1)(A)(i) of the Social Security Act.

Unless otherwise specified, *italicized text* represents quotation from one or more of the following CMS sources:

#### **Title XVIII of the Social Security Act (SSA):**

Section 1862(a)(1)(A) excludes expenses incurred for items or services which are not reasonable and necessary for the diagnosis or treatment of illness or injury or to improve the functioning of a malformed body member.

Section 1833(e) prohibits Medicare payment for any claim which lacks the necessary information to process the claim.

Section 1862(a)(7) excludes routine physical examinations, unless otherwise covered by statute.

#### **CMS Publications:**

CMS Publication 100-02, *Medicare Benefit Policy Manual*, Chapter 15, Section 80.1 – Laboratory services must meet applicable requirements of CLIA

CMS Publication 100-04, *Medicare Claims Processing Manual*, Chapter 16, Section 40.7 Billing for Noncovered Clinical Laboratory Tests Section and 120.1 Clarification of the Use of the Term “Screening” or “Screen”

CMS Publication 100-04, *Medicare Claims Processing Manual*, Chapter 30, Section 50 Advance Beneficiary Notice of Noncoverage (ABN)

CMS Publication 100-08, *Medicare Program Integrity Manual*, Chapter 13, Local Coverage Determinations

CMS National Correct Coding Initiative (NCCI) Policy Manual for Medicare Services, Chapter 10, Pathology/Laboratory Services, (A) Introduction

CMS Publication 100-02, *Medicare Benefit Policy Manual*, Chapter 15, Section 80.6.5 which describes the Surgical/Cytopathology Exception.

CMS National Correct Coding Initiative (NCCI) Policy Manual for Medicare Services, Chapter 10 Pathology/Laboratory Services which addresses reflex testing.

#### **Code of Federal Regulations:**

42 CFR, Section 410.32, indicates that diagnostic tests may only be ordered by the treating physician (or other treating practitioner acting within the scope of his or her license and Medicare requirements) who furnishes a consultation or treats a beneficiary for a specific medical problem and who uses the results in the management of the beneficiary's specific medical problem. Tests not ordered by the physician (or other qualified non-physician provider) who is treating the beneficiary are not reasonable and necessary (see Sec. 411.15(k) (1) of this chapter).

### ***Coverage Guidance***

**Coverage Indications, Limitations, and/or Medical Necessity**

#### **Non-Small Cell Lung Cancer (NSCLC)**

#### **Indications and Limitations of Coverage**

Genomic Sequential Analysis Panel will be considered reasonable and necessary in the evaluation of tumor tissue in the following clinical circumstances:

- Newly diagnosed patients with advanced (stage IIIB or IV) NSCLC, who are not treatable by resection or radiation with curative intent, and who are suitable candidates for therapy at the time of testing.
- Previously diagnosed patients with advanced (stage IIIB or IV) NSCLC, who have not responded to at least one systemic therapy, or who have progressed following resection. The patient must be a candidate for treatment at the time of the testing.
- Previously diagnosed patients with advanced (stage IIIB or IV) NSCLC, who have been resistant to at least one targeted therapy, are able to undergo tumor tissue biopsy for testing, and who are suitable candidates for additional treatment at the time of testing.

### **Metastatic Colorectal Cancer (mCRC)**

#### **Indications and Limitations of Coverage**

Genomic Sequential Analysis Panel will be considered reasonable and necessary when the test is performed in a CLIA-certified laboratory qualified to perform high complexity testing, ordered by a treating physician, and the patient has:

1. metastatic CRC; and
2. is a candidate for intensive chemotherapy with an anti-EGFR biologic agent; and
3. has not had prior RAS/BRAF testing (except after initiation of anti-EGFR therapy with evidence of acquired resistance).

#### **Summary of Evidence**

##### **Non-Small Cell Lung Cancer (NSCLC)**

The American Cancer Society estimates that over 220,000 new cases of lung cancer will be diagnosed in 2015, with over 85% of those cancers being classified as non-small cell lung cancer. Lung cancer represents approximately 13% of all new cancer diagnoses, and approximately 27% of cancer deaths. The estimated 5yr survival rate for all lung cancer patients is 17% and is only 4% for patients with metastatic disease.

Most lung cancers are epithelial in origin, with squamous cell carcinomas, adenocarcinomas, and small cell carcinomas being the predominant histologic types. The first two, squamous and adenocarcinomas, have been traditionally grouped as non-small cell lung cancer (NSCLC). Surgery remains the cornerstone of treatment for early stage NSCLC of either type, however treatment of advanced stage disease is based primarily on drugs. Distinctive response patterns to specific therapeutic drugs have been demonstrated over the past 12 years, necessitating the distinction between squamous cell and adenocarcinoma morphology. Consequently, the most recent WHO guidelines advocate sub-classification of all NSCLC in to a more specific subtype whenever possible. This is typically accomplished by histologic evaluation with support from specific immunohistochemical studies, which are particularly useful in the evaluation of small biopsies.

Adenocarcinomas account for approximately 40% of all lung cancers, and are the most common lung cancer in never- or light smokers. Adenocarcinomas are characterized by glandular differentiation, mucin production, or pneumocyte marker expression. Certain genomic alterations are more commonly found in lung adenocarcinomas (when compared to squamous or small cell carcinomas) and clinical laboratory testing to identify these alterations is important in two respects: First, some mutations are now recognized as "driver mutations," which are essential for tumor cell survival. Inhibition of these mutated proteins results in tumor cell death, making them attractive therapeutic targets. While not all driver mutations have specific therapies at this time, an important corollary of this concept is that with rare exception, such driver mutations are mutually exclusive, i.e. the identification of one driver mutation in a tumor effectively makes the likelihood that another driver mutation is present extremely

unlikely.

The second reason clinical laboratory testing for specific driver mutations in lung adenocarcinomas is important is the association of specific genomic alterations with response to specific drugs. Different driver mutations respond to different targeted therapies, and only genetic testing can clearly identify which mutation is present and, therefore, which treatment should be administered. While some of the genetic alterations that affect response to targeted inhibitors are found in a higher proportion of adenocarcinomas from patients with certain clinical risk factors (i.e., low to no history of tobacco exposure, female gender, young age, Asian ethnicity), these clinical associations are not sufficiently predictive of mutation status to appropriately determine therapy without genetic testing. Accordingly, professional practice guidelines from CAP-IASLC-AMP, WHO, and NCCN all advise against using smoking history, or other clinical risk factors, to exclude testing patients for specific genomic alterations.

NCCN Guidelines (v 7.2015) for Non-Small Cell Lung Cancer recommend testing all non-squamous NSCLCs (i.e. adenocarcinomas, large cell carcinomas, and NSCLC not otherwise specified) for specific alterations in EGFR and ALK and recommend consideration of such testing in tumors with mixed squamous and adeno histology, and in the rare squamous cell carcinomas in never smokers. The NCCN NSCLC Panel “strongly endorses broader molecular profiling to identify rare driver mutations using multiplex/NGS to ensure that patients receive the most appropriate treatment”. In addition to testing for alterations in EGFR and ALK, NCCN Guidelines explicitly recognize the prognostic and predictive value of KRAS mutations as well as alterations in the BRAF, MET, and ROS1 genes to select a therapeutic agent, the use of which may be “off-label” but which also meets Medicare coverage requirements for off-label cancer drugs (CMS Publication Pub 100-02, Medicare Benefit Policy Manual, Chapter 15, §50.4.5).

Genomic alterations contribute to the development of non-small cell lung carcinoma. Two of the best studied alterations are EGFR mutations and ALK (e.g., EML4-ALK) gene fusions. EGFR mutations are permissive for the use of oral EGFR inhibitors, such as erlotinib. Similarly, activating fusions of ALK permit treatment with oral ALK inhibitors, such as crizotinib. Gene alterations for which a targeted therapeutic agent is available and the use of which meets Medicare coverage requirements (outside of a clinical trial) are listed in Table 1.

Table 1

| Gene  | NCCN Category 1 or 2A Recommended Therapeutic Option |
|-------|--|
| ALK   | crizotinib, ceritinib, and alectinib                 |
| EGFR  | afatinib, erlotinib hydrochloride, and gefitinib     |
| ROS 1 | crizotinib   |
| KRAS  | Avoid TKI  |
| BRAF  | dabrafenib and vemurafib                             |
| MET   | crizotinib   |

### **Metastatic Colorectal Cancer (mCRC)**

Despite improvements in mortality secondary to advances in screening and treatment over the last several decades, CRC is the second leading cause of cancer deaths in the US, with about 50,000 deaths per year, 8% of all cancer deaths (1,2). Approximately 50-60% of patients with CRC develop metastases (usually metachronous, but synchronous in 20-34%), with 80-90% unresectable metastatic liver disease. Twenty percent present with metastatic disease. Today, the median overall survival (OS) for patients with mCRC is approximately 30 months, more than double that of 20 years ago (3).

The level of understanding of the molecular events underlying CRC is far greater than for other common solid tumors. Sporadic disease, in which there is no family history, accounts for approximately 70% of all CRCs (4). Specific germline mutations are responsible for the inherited

CRC syndromes, while a stepwise accumulation of somatic mutations is thought to underlie most sporadic cases.

#### RAS and BRAF Mutations

The activation of the epidermal growth factor receptor (EGFR) signaling cascade is a well-described pathway leading to colon tumorigenesis. The receptor for EGFR is overexpressed in 49-82% of CRC. Cetuximab and panitumumab are monoclonal antibodies directed against EGFR that inhibit downstream signaling pathways, but are only effective in about 10-20% of CRC. Mutations within the RAS and BRAF oncogenes located downstream of EGFR within this pathway lead to its constitutive activation, even if the EGFR is blocked.

KRAS exon 2-4 and NRAS exon 2-4 mutations (RAS mutations) are found in about 50% of mCRC and exclude affected patients from EGFR-directed therapy (5,6). There is good concordance between the primary and synchronous distant metastases (but not lymph node metastases) (7). Besides their negative predictive value, RAS mutations have been independently associated with a worse prognosis in most studies (5,8). Some studies suggest that EGFR inhibition may even be detrimental in patients with RAS-mutant mCRC (9).

Activating BRAF mutations (mostly V600E), mutually exclusive from KRAS mutations, are found in approximately 5-10% of mCRCs, and are associated with poor overall prognosis (10). Evidence increasingly suggests that response to EGFR-targeted agents is unlikely in BRAF V600E patients, even if RAS wild type (11,12).

The most recent TNM staging classification considers RAS and BRAF V600E mutations to have both prognostic (level 1 evidence) and predictive (level 1 evidence) significance (2). In a Provisional Clinical Opinion (PLO), the American Society of Clinical Oncology (ASCO) recommended that all patients who are candidates for anti-EGFR therapy should have their tumor tested for mutations in both KRAS and NRAS exons 2 (codons 12 and 13), 3 (codons 59 and 61), and 4 (codons 117 and 146) (13). Because anti-EGFR agents have no role in the management of stage I-III disease, this genotyping is reserved for metastatic disease.

#### Mismatch Repair Deficiency (dMMR)

MMR genes are responsible for correcting the ubiquitous nucleotide base mispairings and small insertions or deletions that occur during DNA replication. Cells that are MMR-deficient accumulate DNA errors throughout the genome (14). The dMMR genetic signature is a high number of DNA replication errors (RER+) and high levels of DNA microsatellite instability (MSI-H), defined as expansion or contraction in  $\geq 30$  percent of microsatellite loci; microsatellites are short sequences of nucleotide bases that are repeated dozens to hundreds of times within the genome.

The gold standard for assessment of MSI has been concurrent analysis of patient tumor and normal DNA for five mononucleotide microsatellite loci with polymerase chain reaction (PCR) (15). The standard for detecting MMR protein expression status has been immunohistochemistry (IHC) for MLH1, MSH2, PMS2, and MSH6 expression. MMR can also be measured by total mutational burden (TMB) via next generation sequencing (NGS). In sporadic tumors, epigenetic changes (acquired hypermethylation of the promoters of both alleles of MLH1 gene), rather than gene mutations, usually account for defective MMR gene expression (20,21).

MSI-H tumors are associated with longer survival in both Lynch syndrome and sporadic CRC, for unclear reasons (4). However, the prognostic influence of MSI is less clear in patients with metastatic CRC, a population in which the prevalence of MSI-H disease is only 3.5% (16). Emerging data have shown MMR status to predict the clinical benefit of immune checkpoint blockade with pembrolizumab in patients with mCRC (17, 22, 23).

#### **Analysis of Evidence (Rationale for Determination)**

#### **Non-Small Cell Lung Cancer (NSCLC)**

In total, there are over 40 single nucleotide or small insertion/deletion variants occurring at numerous specific loci in ten genes. These variants represent potential therapeutic targets and, as therapeutic agents aimed at these targets are proven safe and effective and meet Medicare coverage guidelines, additional genes may be added to the above table. In addition, gene fusions can involve five different genes, and amplification is the significant recognized alteration in at least one gene. Targeted genomic sequence analysis panel, solid organ neoplasm, DNA analysis, 5-50 genes (CPT 81445) is a useful representation of the aggregate of these gene tests, and may be used (along with other listed panel codes) as long as the panel contains, at a minimum, 5 or more gene tests for molecular biomarkers determined to meet Medicare coverage criteria as listed above. Evaluation of other genes or genomic sequences not addressed by NCCN or other professional guidelines are not precluded, but their inclusion in panels recognized by this code should not be interpreted as endorsement of such testing by genomic sequencing procedures and laboratories and users of such testing are advised to adhere to traditional regulatory and institutional oversight mechanisms to assure their clinical validity and utility.

### **Metastatic Colorectal Cancer (mCRC)**

The genetic factors with strong evidence for clinical decision-making (both prognostic and predictive of chemotherapy efficacy) are BRAF and RAS mutations along with MMR status (2). Guidelines from NCCN, the European Society for Medical Oncology (ESMO), as well as a combined guideline from the American Society for Clinical Pathology (ASCP), College of American Pathologists (CAP), Association for Molecular Pathology (AMP), and ASCO consider the following molecular genetic biomarkers necessary for diagnosis and management of mCRC (1,3,18,19). Testing is not necessary for mCRC patients being considered for palliative or hospice care only (19). Re-testing may be indicated after initiation of anti-EGFR treatment if resistance develops (24-26).

| Gene Test                        | Clinical Utility                                       | NCCN Category |
|----------------------------------|--|---------------|
| Extended RAS Testing             | Prognostic and predictive of anti-EGFR efficacy        | 2A            |
| KRAS/NRAS exon 2, codons 12/13   | Prognostic and predictive of anti-EGFR efficacy        | 2A            |
| KRAS/NRAS exon 3, codons 59/61   | Prognostic and predictive of anti-EGFR efficacy        | 2A            |
| KRAS/NRAS exon 4, codons 117/146 | Prognostic and predictive of anti-EGFR efficacy        | 2A            |
| BRAF (V600E)                     | Prognostic and predictive of anti-EGFR efficacy        | 2A            |
| MSI                              | Prognostic stratifications and risk for Lynch syndrome | 2A            |

Targeted genomic sequence analysis panel, solid organ neoplasm, DNA analysis, 5-50 genes (CPT 81445) is a useful representation of the aggregate of these gene tests, and may be used (along with other listed panel codes) as long as the panel contains, at a minimum, 5 or more gene tests for molecular biomarkers determined to meet Medicare coverage criteria (for example, NCCN Biomarkers Compendium Evidence Category I or 2A and associated clinical utility). Evaluation of other genes or genomic sequences not addressed by NCCN or other professional guidelines are not precluded, but their inclusion in panels recognized by this code should not be interpreted as endorsement of such testing by genomic sequencing procedures and laboratories, and users of such testing are advised to adhere to traditional regulatory and institutional oversight mechanisms to assure their clinical validity and utility.

### ***Coding Information***

#### **Bill Type Codes:**

Contractors may specify Bill Types to help providers identify those Bill Types typically used to report this service. Absence of a Bill Type does not guarantee that the policy does not apply to that Bill Type. Complete absence of all Bill Types indicates that coverage is not influenced by Bill Type and the policy should be assumed to apply equally to all claims.

| Bill Type | Description                               |
|-----------|---|
| 012x      | Hospital Inpatient (Medicare Part B only) |

| Bill Type | Description   |
|-----------|---|
| 013x      | Hospital Outpatient                                     |
| 014x      | Hospital - Laboratory Services Provided to Non-patients |
| 022x      | Skilled Nursing - Inpatient (Medicare Part B only)      |
| 023x      | Skilled Nursing - Outpatient                            |

**Revenue Codes:**

Contractors may specify Revenue Codes to help providers identify those Revenue Codes typically used to report this service. In most instances Revenue Codes are purely advisory. Unless specified in the policy, services reported under other Revenue Codes are equally subject to this coverage determination. Complete absence of all Revenue Codes indicates that coverage is not influenced by Revenue Code and the policy should be assumed to apply equally to all Revenue Codes.

| Revenue Code | Description                                   |
|--------------|---|
| 0300         | Laboratory - General Classification           |
| 0310         | Laboratory Pathology - General Classification |

**CPT/HCPCS Codes****Group 1 Paragraph:****Group 1 Codes:**

| CPT/HCPCS Code | Description   |
|----------------|---|
| 81445          | TARGETED GENOMIC SEQUENCE ANALYSIS PANEL, SOLID ORGAN NEOPLASM, DNA ANALYSIS, AND RNA ANALYSIS WHEN PERFORMED, 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            |
| 0048U          | ONCOLOGY (SOLID ORGAN NEOPLASIA), DNA, TARGETED SEQUENCING OF PROTEIN-CODING EXONS OF 468 CANCER-ASSOCIATED GENES, INCLUDING INTERROGATION FOR SOMATIC MUTATIONS AND MICROSATELLITE INSTABILITY, MATCHED WITH NORMAL SPECIMENS, UTILIZING FORMALIN-FIXED PARAFFIN-EMBEDDED TUMOR TISSUE, REPORT OF CLINICALLY SIGNIFICANT MUTATION(S) |

**ICD-10 Codes that Support Medical Necessity****Group 1 Paragraph:**

CPT codes 81445 or 0048U may be used with the following ICD-10-CM diagnosis codes which are considered medically necessary in the treatment of Non-Small Cell Lung Cancer (NSCLC):

**Group 1 Codes:**

| ICD-10 Code                  | Description   |
|------------------------------|---|
| <a href="#">C33 - C34.92</a> | Malignant neoplasm of trachea - Malignant neoplasm of unspecified part of left bronchus or lung |
| C38.4                        | Malignant neoplasm of pleura  |
| C45.0                        | Mesothelioma of pleura  |

**Group 2 Paragraph:**

CPT codes 81445 or 0048U may be used with the following ICD-10-CM diagnosis codes which are considered medically necessary in the treatment of Metastatic Colorectal Cancer (mCRC):

**Group 2 Codes:**

| ICD-10 Code                   | Description   |
|-------------------------------|---|
| <a href="#">C17.0 - C17.9</a> | Malignant neoplasm of duodenum - Malignant neoplasm of small intestine, unspecified |
| <a href="#">C18.0 - C19</a>   | Malignant neoplasm of cecum - Malignant neoplasm of rectosigmoid junction           |



| ICD-10 Code                       | Description   |
|-----------------------------------|---|
| C20                               | Malignant neoplasm of rectum  |
| C21.1                             | Malignant neoplasm of anal canal  |
| C21.2                             | Malignant neoplasm of cloacogenic zone  |
| C21.8                             | Malignant neoplasm of overlapping sites of rectum, anus and anal canal              |
| <a href="#">C7A.020 - C7A.026</a> | Malignant carcinoid tumor of the appendix - Malignant carcinoid tumor of the rectum |

### ICD-10 Codes that DO NOT Support Medical Necessity

#### Group 1 Paragraph:

Any diagnosis code not listed above does not support medical necessity.

#### Group 1 Codes:

| ICD-10 Code | Description    |
|-------------|----------------|
| XX000       | Not Applicable |

### Additional ICD-10 Information

N/A

### ***General Information***

#### **Associated Information**

#### **Documentation Requirements**

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).

Examples of documentation requirements of the ordering physician/non-physician practitioner (NPP) include, but are not limited to, history and physical or exam findings that support the decision making, problems/diagnoses, relevant data (e.g., lab testing, imaging results).

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.

Documentation requirements for LDT(s)/protocols (when requested) include diagnostic test/assay, lab/manufacture, names of comparable assays/services (if relevant), description of assay, analytical validity evidence, clinical validity evidence, and clinical utility.

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. If on review the contractor cannot link a billed code to the documentation, these services will be denied based on Title XVIII of the Social Security Act, §1833(e).

For these tests, the ordering provider must provide to the laboratory copies of the signed informed consent documentation.

An Advance Beneficiary Notice of Noncoverage (ABN) is required before furnishing a beneficiary a test which the physician or laboratory believes to be noncovered by Medicare as not reasonable or necessary. *The physician or laboratory must obtain a signed ABN from the beneficiary (or representative) that the physician or laboratory has informed him/her on the*

*non-coverage of the test and that there will be a charge for the test.*

When the documentation does not meet the criteria for the service rendered or the documentation does not establish the medical necessity for the services, such services will be denied as not reasonable and necessary under Section 1862(a)(1)(A) of the Social Security Act.

### Utilization Guidelines

Screening services such as pre-symptomatic genetic tests and services used to detect an undiagnosed disease or disease predisposition are not a Medicare benefit and are not covered. Similarly, Medicare may not reimburse the costs of tests/examinations that assess the risk of a condition unless the risk assessment clearly and directly effects the management of the patient.

Title XVIII of the Social Security Act (SSA) §1862(a)(1)(A) states that no Medicare payment shall be made for items and services which are not reasonable and necessary for the diagnosis or treatment of illness or injury. Based on this statute, CMS states that *"tests that are performed in the absence of signs, symptoms, complaints, or personal history of disease or injury are non-covered unless explicitly authorized by statute."*

A specific genetic 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 coverage.

### Sources of Information

N/A

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***Revision History Information***

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***Associated Documents*****Attachments**

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**Related Local Coverage Documents****Article(s)**

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