To all beneficiaries enrolled in a Prepaid Health Plan (PHP): for questions about benefits and services available on or after November 1, 2019, please contact your PHP.

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1.0 Description of the Procedure, Product or Service

1.1 General

Bone Mass Measurement (BMM) is a radiologic procedure performed for the purpose of quantifying bone mass, measuring changes in bone mass over time, or assessing bone quality. BMM can be used to establish the diagnosis of osteoporosis, to assess an individual’s risk of fracture, or to determine the efficacy of osteoporosis drug therapy.

According to the National Osteoporosis Foundation, osteoporosis is a “debilitating disease that can be prevented and treated.” It is a “disease in which bones become fragile and more likely to break.” Any bone can be affected, but osteoporosis of the hip, spine, and wrist are of special concern, as fractures at these sites can be associated with significant morbidity and mortality.

While BMM can be performed using a variety of systems approved by the Food and Drug Administration (FDA), only Dual energy X-ray absorptiometry (DXA), bone density study, 1 or more sites; axial skeleton (e.g. hips, pelvis, spine), can be used to diagnose osteoporosis based on WHO T-score criteria. If either the spine or hip is not evaluable, use 33% radius (sometimes called one-third radius) of the non-dominant forearm for diagnosis using DXA.

The following methods are established procedures of bone mass measurements of the axial (central) or peripheral skeleton:

a. Dual Energy X-Ray Absorptiometry (DXA);

b. Quantitative Computed Tomography (QCT); and

c. Ultrasound bone density measurement.

1.2 Pediatric

According to The International Society for Clinical Densitometry (ISCD) - 2007 Pediatric Official Positions, the diagnosis of osteoporosis in children and adolescents (ages 5-19) should not be made on the basis of densitometric criteria alone. ISCD recommends that instead of T-scores, ethnic or race adjusted Z-scores must be used. Low bone mineral content (BMC) or bone mineral density (BMD) is defined as a BMC or areal BMD Z-score that is less than or equal to -2.0, adjusted for age, gender and body size, as appropriate. Low bone mineral content or bone mineral density for chronologic age is the preferred term when BMC or BMD Z-scores are less than or equal to -2.0.

According to ISCD - 2007 Pediatric Official Positions, the term “osteopenia” must not appear in pediatric DXA reports; and “osteoporosis” must not appear in pediatric DXA reports without knowledge of clinically significant fracture history.
Baseline DXA Report
According to ISCD - 2007 Pediatric Official Positions, Baseline DXA reports must contain the following information:

a. DXA manufacturer, model, and software version;
b. Referring physician;
c. Beneficiary age, gender, race or ethnicity, weight, and height;
d. Relevant medical history including previous fractures;
e. Indication for study;
f. Bone age results, if available;
g. Technical quality;
h. BMC and areal BMD;
i. BMC and areal BMD Z-score;
j. Source of reference data for Z-score calculations;
k. Adjustments made for growth and maturation;
l. Interpretation; and
m. Recommendations for the necessity and timing of the next DXA study are optional.

DXA Interpretation and Reporting in Children and Adolescents
According to ISCD - 2007 Pediatric Official Positions, DXA Interpretation and Reporting in Children and Adolescents includes:

a. DXA is the preferred method for assessing BMC and areal BMD;
b. The posteroanterior (PA) spine and total body less head (TBLH) are the most accurate and reproducible skeletal sites for performing BMC and areal BMD measurements;
c. Soft tissue measures in conjunction with whole body scans may be helpful in evaluating beneficiaries with chronic conditions associated with malnutrition (such as anorexia nervosa, inflammatory bowel disease, cystic fibrosis), or with both muscle and skeletal deficits (such as idiopathic juvenile osteoporosis);
d. The hip (including total hip and proximal femur) is not a reliable site for measurement in growing children due to significant variability in skeletal development and lack of reproducible regions (of interest);
e. In children with linear growth or maturational delay, spine and TBLH BMC and areal BMD results should be adjusted for absolute height or height age, or compared to pediatric reference data that provide age-, gender-, and height-specific Z-scores;
f. An appropriate reference data set must include a sample of the general healthy population sufficiently large to characterize the normal variability in bone measures that takes into consideration gender, age, and race/ethnicity; and
g. When upgrading densitometer instrumentation or software, it is essential to use reference data valid for the hardware and software technological updates.

1.3 Definitions
None Apply.
2.0 Eligibility Requirements

2.1 Provisions

2.1.1 General

(These terms “General” found throughout this policy applies to all Medicaid and NCHC policies)

a. An eligible beneficiary shall be enrolled in either:
   1. the NC Medicaid Program (Medicaid is NC Medicaid program, unless context clearly indicates otherwise); or
   2. the NC Health Choice (NCHC is NC Health Choice program, unless context clearly indicates otherwise) Program on the date of service and shall meet the criteria in Section 3.0 of this policy.

b. Provider(s) shall verify each Medicaid or NCHC beneficiary’s eligibility each time a service is rendered.

c. The Medicaid beneficiary may have service restrictions due to their eligibility category that would make them ineligible for this service.

d. Following is only one of the eligibility and other requirements for participation in the NCHC Program under GS 108A-70.21(a): Children must be between the ages of 6 through 18.

2.1.2 Specific

(These terms “Specific” found throughout this policy only applies to this policy)

a. Medicaid
   None Apply.

b. NCHC
   None Apply.

2.2 Special Provisions

2.2.1 EPSDT Special Provision: Exception to Policy Limitations for a Medicaid Beneficiary under 21 Years of Age

   a. 42 U.S.C. § 1396d(r) [1905(r) of the Social Security Act]

   Early and Periodic Screening, Diagnostic, and Treatment (EPSDT) is a federal Medicaid requirement that requires the state Medicaid agency to cover services, products, or procedures for Medicaid beneficiary under 21 years of age if the service is medically necessary health care to correct or ameliorate a defect, physical or mental illness, or a condition [health problem] identified through a screening examination (includes any evaluation by a physician or other licensed practitioner).

   This means EPSDT covers most of the medical or remedial care a child needs to improve or maintain his or her health in the best condition possible, compensate for a health problem, prevent it from worsening, or prevent the development of additional health problems.

   Medically necessary services will be provided in the most economic mode, as long as the treatment made available is similarly efficacious to the service requested by the beneficiary’s physician, therapist, or other licensed practitioner; the determination process does not delay the delivery of the
needed service; and the determination does not limit the beneficiary’s right to a free choice of providers.

EPSDT does not require the state Medicaid agency to provide any service, product or procedure:

1. that is unsafe, ineffective, or experimental or investigational.
2. that is not medical in nature or not generally recognized as an accepted method of medical practice or treatment.

Service limitations on scope, amount, duration, frequency, location of service, and other specific criteria described in clinical coverage policies may be exceeded or may not apply as long as the provider’s documentation shows that the requested service is medically necessary “to correct or ameliorate a defect, physical or mental illness, or a condition” [health problem]; that is, provider documentation shows how the service, product, or procedure meets all EPSDT criteria, including to correct or improve or maintain the beneficiary’s health in the best condition possible, compensate for a health problem, prevent it from worsening, or prevent the development of additional health problems.

b. EPSDT and Prior Approval Requirements

1. If the service, product, or procedure requires prior approval, the fact that the beneficiary is under 21 years of age does NOT eliminate the requirement for prior approval.

2. IMPORTANT ADDITIONAL INFORMATION about EPSDT and prior approval is found in the NCTracks Provider Claims and Billing Assistance Guide, and on the EPSDT provider page. The Web addresses are specified below.

NCTracks Provider Claims and Billing Assistance Guide: https://www.nctracks.nc.gov/content/public/providers/provider-manuals.html

EPSDT provider page: https://medicaid.ncdhhs.gov/

2.2.2 EPSDT does not apply to NCHC beneficiaries

2.2.3 Health Choice Special Provision for a Health Choice Beneficiary age 6 through 18 years of age

NC Medicaid shall deny the claim for coverage for an NCHC beneficiary who does not meet the criteria within Section 3.0 of this policy. Only services included under the NCHC State Plan and the NC Medicaid clinical coverage policies, service definitions, or billing codes are covered for an NCHC beneficiary.
3.0 When the Procedure, Product, or Service Is Covered

Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for a Medicaid Beneficiary under 21 Years of Age.

3.1 General Criteria Covered
Medicaid and NCHC shall cover the procedure, product, or service related to this policy when medically necessary, and:

a. the procedure, product, or service is individualized, specific, and consistent with symptoms or confirmed diagnosis of the illness or injury under treatment, and not in excess of the beneficiary’s needs;

b. the procedure, product, or service can be safely furnished, and no equally effective and more conservative or less costly treatment is available statewide; and

c. the procedure, product, or service is furnished in a manner not primarily intended for the convenience of the beneficiary, the beneficiary’s caretaker, or the provider.

3.2 Specific Criteria Covered

3.2.1 Specific criteria covered by both Medicaid and NCHC

a. Medicaid and NCHC shall cover BMM when it is medically necessary and

1. Ordered and provided by or under the direction of a licensed physician or other licensed non physician practitioner within the scope of his or her practice as defined by State law and who is treating the beneficiary;

2. Provided in an office or similar facility other than a hospital outpatient department or clinic; and

3. Performed with a DXA system that is approved and regulated by the FDA.

b. Medicaid and NCHC shall cover BMM when the health record documents that the beneficiary meets the medical indications for at least one of the categories listed below:

1. A female beneficiary determined to be estrogen deficient and at clinical risk for osteoporosis or low bone mineral content based on medical history and other findings;

2. A beneficiary with vertebral abnormalities, as demonstrated by an X-ray, that are indicative of osteoporosis, osteopenia, low bone mineral content, or vertebral fracture;

3. A beneficiary at risk of osteoporosis or low bone mineral content due to long-term medication including:

   A. Long-term (anticipated or actual) glucocorticoid therapy equivalent to 5.0 mg of prednisone, or greater, per day, for three months or greater

   B. Long-term or excess thyroid replacement therapy with evidence for hyperthyroidism

   C. Long-term anti-convulsant therapy for three months or greater

   D. Long-term heparin therapy for one month or greater

   E. Long-term Depo-Provera therapy (for two years or greater)
4. A beneficiary with primary hyperparathyroidism;
5. A beneficiary being monitored to assess the response to or efficacy of
   FDA-approved drug therapy for low bone mineral content;
6. A beneficiary with a history of low trauma fracture; or
7. A beneficiary with other conditions or currently receiving medical
   therapies known to cause low bone mass including celiac disease,
   cerebral palsy, and hypogonadism.

   c. Dual energy X-Ray Absorptiometry (DXA), bone density study for one or
      more sites is the only BMM test covered by Medicaid and NCHC for the
      monitoring of drug therapy for osteoporosis or low bone mineral content
      drug therapy. Refer to Attachment A, Section C for the applicable CPT
      code.

3.2.2 Medicaid Additional Criteria Covered

   Medicaid shall cover BMM for
   a. A female Medicaid beneficiary 65 years of older; and
   b. A male Medicaid beneficiary 70 years or older.

3.2.3 NCHC Additional Criteria Covered

   None Apply.

4.0 When the Procedure, Product, or Service Is Not Covered

   Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for a
   Medicaid Beneficiary under 21 Years of Age.

4.1 General Criteria Not Covered

   Medicaid and NCHC shall not cover the procedure, product, or service related to this
   policy when:
   a. the beneficiary does not meet the eligibility requirements listed in Section 2.0;
   b. the beneficiary does not meet the criteria listed in Section 3.0;
   c. the procedure, product, or service duplicates another provider’s procedure, product,
      or service; or
   d. the procedure, product, or service is experimental, investigational, or part of a clinical
      trial.

4.2 Specific Criteria Not Covered

4.2.1 Specific Criteria Not Covered by both Medicaid and NCHC

   Medicaid and NCHC shall not cover BMM for the CPT codes listed in
   Attachment A, Section C, C.2.

4.2.2 Medicaid Additional Criteria Not Covered

   None Apply.
4.2.3 **NCHC Additional Criteria Not Covered**

a. NCGS § 108A-70.21(b) “Except as otherwise provided for eligibility, fees, deductibles, copayments, and other cost sharing charges, health benefits coverage provided to children eligible under the Program shall be equivalent to coverage provided for dependents under North Carolina Medicaid Program except for the following:

1. No services for long-term care.
2. No nonemergency medical transportation.
3. No EPSDT.
4. Dental services shall be provided on a restricted basis in accordance with criteria adopted by the Department to implement this subsection.”

5.0 **Requirements for and Limitations on Coverage**

*Note: Refer to Subsection 2.2 regarding EPSDT Exception to Policy Limitations for Medicaid Beneficiaries under 21 Years of Age.*

5.1 **Prior Approval**

5.1.1 **Prior Approval Requirements for Medicaid Beneficiaries**

The provider shall obtain prior approval before rendering Bone Mass Measurement services to Medicaid beneficiaries only for computed tomography, bone mineral density study, 1 or more sites: axial skeleton or appendicular skeleton (peripheral). Other BMM procedure codes do not require prior approval for Medicaid beneficiaries.

a. Refer to **Attachment A, Section C** for the applicable CPT codes.

b. Refer to Clinical Coverage Policy 1K-7, **Prior Approval for Imaging Services** at [https://medicaid.ncdhhs.gov/](https://medicaid.ncdhhs.gov/).

5.1.2 **Prior Approval Requirements for NC Health Choice Beneficiaries**

Prior approval is not required for Bone Mass Measurement services for NCHC beneficiaries.

5.2 **Prior Approval Requirements**

5.2.1 **General**

The provider(s) shall submit to the Department of Health and Human Services (DHHS) Utilization Review Contractor the following:

a. the prior approval request; and

b. all health records and any other records that support the beneficiary has met the specific criteria in **Subsection 3.2** of this policy.

5.3 **Additional Limitations or Requirements**

a. BMM is limited to one test every two years for a Medicaid or NCHC beneficiary at risk for low bone mass (at least 23 months must have passed since the month the last covered BMM was performed).

b. An additional BMM may be covered more frequently than every 23 months for one of the following conditions:
1. Long-term glucocorticoid therapy of 5.0 mg of prednisone or more per day of more than three months’ duration;
2. Long-term anticonvulsant therapy of more than three months’ duration; or
3. Monitoring with uncorrected primary hyperparathyroidism.

Note: Refer to Attachment A, Section B for the diagnosis codes.

6.0 Provider(s) Eligible to Bill for the Procedure, Product, or Service
To be eligible to bill for the procedure, product, or service related to this policy, the provider(s) shall:
   a. meet Medicaid or NCHC qualifications for participation;
   b. have a current and signed Department of Health and Human Services (DHHS) Provider Administrative Participation Agreement; and
   c. bill only for procedures, products, and services that are within the scope of their clinical practice, as defined by the appropriate licensing entity.

6.1 Provider Qualifications and Occupational Licensing Entity Regulations
None Apply.

6.2 Provider Certifications
None Apply.

7.0 Additional Requirements
Note: Refer to Subsection 2.2.1 regarding EPSDT Exception to Policy Limitations for a Medicaid Beneficiary under 21 Years of Age.

7.1 Compliance
Provider(s) shall comply with the following in effect at the time the service is rendered:
   a. All applicable agreements, federal, state and local laws and regulations including the Health Insurance Portability and Accountability Act (HIPAA) and record retention requirements; and
   b. All NC Medicaid’s clinical (medical) coverage policies, guidelines, policies, provider manuals, implementation updates, and bulletins published by the Centers for Medicare and Medicaid Services (CMS), DHHS, DHHS division(s) or fiscal contractor(s).
8.0 Policy Implementation/Revision Information

Original Effective Date: January 1, 1987

Revision Information:

<table>
<thead>
<tr>
<th>Date</th>
<th>Section Revised</th>
<th>Change</th>
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<tbody>
<tr>
<td>02/01/2009</td>
<td>Throughout</td>
<td>Initial promulgation of current coverage.</td>
</tr>
<tr>
<td>07/01/2010</td>
<td>Throughout</td>
<td>Policy Conversion: Implementation of Session Law (SL) 2009-451, Section 10.31(a) Transition of NC Health Choice Program administrative oversight from the State Health Plan to the DMA in the NC Department of Health and Human Services.&quot;</td>
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<tr>
<td>12/01/2011</td>
<td>Throughout</td>
<td>Title of policy changed from Bone Mineral Density Studies to Bone Mass Measurement.</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>Section 1.0</td>
<td>Added description of Bone mass measurement (BMM). Added information related to diagnosing low bone mineral content in children and adolescents. Deleted description of Bone mineral density (BMD) studies.</td>
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<tr>
<td>12/01/2011</td>
<td>Subsection 3.2</td>
<td>Added NCHC specific coverage criteria for BMM which includes policy guidelines. Deleted specific criteria regarding BMD studies.</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>Subsection 4.2</td>
<td>Added specific noncoverage criteria for BMM including CPT codes not covered. Deleted BMD studies noncoverage criteria.</td>
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<tr>
<td>12/01/2011</td>
<td>Subsection 5.1</td>
<td>Added requirement for Prior Approval for Bone Mass Measurement procedures.</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>Subsection 5.2</td>
<td>Added specific documentation required to obtain Prior Approval. Deleted documentation requirements regarding requesting BMM more frequently than every two years.</td>
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<tr>
<td>12/01/2011</td>
<td>Subsection 5.3</td>
<td>Added limitations for BMM procedures.</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>Subsection 5.4</td>
<td>Added Dual energy X-ray absorptiometry (DXA) interpretation and reporting in children and adolescents.</td>
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<tr>
<td>12/01/2011</td>
<td>Subsection 5.5</td>
<td>Added baseline DXA report requirements.</td>
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<tr>
<td>12/01/2011</td>
<td>Attachment A, B.</td>
<td>Added the ICD-9-CM codes which permit BMM to be performed more than every 23 months.</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>Attachment A, C.</td>
<td>Added descriptions for covered CPT codes 77078, 77079, 77080, 77081 and 76977. Deleted CPT codes 77083, 78350, and 78351. Added Hospital revenue codes.</td>
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<tr>
<td>Date</td>
<td>Section Revised</td>
<td>Change</td>
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<tr>
<td>12/01/2011</td>
<td>Attachment A, F.</td>
<td>Deleted beneficiary’s home, Intermediate Care Facility, Skilled Nursing Facility for NCHC.</td>
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<tr>
<td>12/01/2011</td>
<td>Throughout</td>
<td>To be equivalent where applicable to NC DMA’s Clinical Coverage Policy # 1K-2 under Session Law 2011-145 § 10.41.(b)</td>
</tr>
<tr>
<td>08/01/2012</td>
<td>Throughout</td>
<td>Technical changes to merge Medicaid and NCHC current coverage into one policy.</td>
</tr>
<tr>
<td>08/01/2012</td>
<td>Throughout</td>
<td>Replaced “recipient” with “beneficiary.”</td>
</tr>
<tr>
<td>10/01/2015</td>
<td>All Sections and Attachments</td>
<td>Updated policy template language and added ICD-10 codes to comply with federally mandated 10/1/2015 implementation where applicable.</td>
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<tr>
<td>03/15/2019</td>
<td>Table of Contents</td>
<td>Added, “To all beneficiaries enrolled in a Prepaid Health Plan (PHP): for questions about benefits and services available on or after November 1, 2019, please contact your PHP.”</td>
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<tr>
<td>03/15/2019</td>
<td>All Sections and Attachments</td>
<td>Updated policy template language.</td>
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Attachment A: Claims-Related Information

Provider(s) shall comply with the, NCTracks Provider Claims and Billing Assistance Guide, Medicaid bulletins, fee schedules, NC Medicaid’s clinical coverage policies and any other relevant documents for specific coverage and reimbursement for Medicaid and NCHC:

A. Claim Type

Professional (CMS-1500/837P transaction)
Institutional (UB-04/837I transaction)

Providers are required to bill applicable revenue codes.

B. International Classification of Diseases and Related Health Problems, Tenth Revisions, Clinical Modification (ICD-10-CM) and Procedural Coding System (PCS)

Provider(s) shall report the ICD-10-CM and Procedural Coding System (PCS) to the highest level of specificity that supports medical necessity. Provider(s) shall use the current ICD-10 edition and any subsequent editions in effect at the time of service. Provider(s) shall refer to the applicable edition for code description, as it is no longer documented in the policy.

<table>
<thead>
<tr>
<th>ICD-10-CM Code(s)</th>
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<tr>
<td>E21.0</td>
<td>G40.201</td>
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<td>G40.801</td>
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<tr>
<td>G40.119</td>
<td>G40.802</td>
</tr>
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</table>

*Use for anticonvulsant therapy of more than three months’ duration; bill with the secondary diagnosis for epilepsy, G40.309 through G40.919, or other convulsions, R56.9.

C. Code(s)

Provider(s) shall report the most specific billing code that accurately and completely describes the procedure, product or service provided. Provider(s) shall use the Current Procedural Terminology (CPT), Health Care Procedure Coding System (HCPCS), and UB-04 Data Specifications Manual (for a complete listing of valid revenue codes) and any subsequent editions in effect at the time of service. Provider(s) shall refer to the applicable edition for the code description, as it is no longer documented in the policy.
If no such specific CPT or HCPCS code exists, then the provider(s) shall report the procedure, product or service using the appropriate unlisted procedure or service code.

C.1 CPTs **covered** are:

<table>
<thead>
<tr>
<th>CPT Code(s)</th>
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<tbody>
<tr>
<td>77078 *</td>
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<td>77079 *</td>
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<tr>
<td>77081</td>
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<tr>
<td>76977</td>
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* Asterisk * means the Procedure codes require prior approval for Medicaid beneficiaries only – refer to **Subsection 5.1**.

C.2 CPTs **not covered** are:

<table>
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<th>CPT Code(s)</th>
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<tr>
<td>77082</td>
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<tr>
<td>78350</td>
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<td>78351</td>
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</tbody>
</table>

**Unlisted Procedure or Service**

CPT: The provider(s) shall refer to and comply with the Instructions for Use of the CPT Codebook, Unlisted Procedure or Service, and Special Report as documented in the current CPT in effect at the time of service.

HCPCS: The provider(s) shall refer to and comply with the Instructions For Use of HCPCS National Level II codes, Unlisted Procedure or Service and Special Report as documented in the current HCPCS edition in effect at the time of service.

D. **Modifiers**

Provider(s) shall follow applicable modifier guidelines.

E. **Billing Units**

Provider(s) shall report the appropriate code(s) used which determines the billing unit(s).

F. **Place of Service**

F1. Medicaid
   a. Inpatient hospital, Outpatient hospital, Physician’s office; and
   b. In addition to the place of services listed in F.1a, CPT code 76977 can also be provided in: Beneficiary’s home, Intermediate care facility and Skilled nursing facility.

F2. NCHC
   a. Inpatient hospital, Outpatient hospital, Physician’s office; and
   b. In addition to the place of services listed in F.2a, CPT code 76977 can also be provided in the Beneficiary’s home.
G. Co-payments

For Medicaid refer to Medicaid State Plan:
https://medicaid.ncdhhs.gov/get-involved/nc-health-choice-state-plan

For NCHC refer to NCHC State Plan:
https://medicaid.ncdhhs.gov/get-involved/nc-health-choice-state-plan

H. Reimbursement

Provider(s) shall bill their usual and customary charges.
For a schedule of rates, refer to: https://medicaid.ncdhhs.gov/