Table of Contents

1.0 Description of the Procedure, Product, or Service .......................................................... 1
   1.1 Definitions .................................................................................................................. 1

2.0 Eligibility Requirements .................................................................................................. 1
   2.1 Provisions .................................................................................................................. 1
      2.1.1 General ............................................................................................................. 1
      2.1.2 Specific .......................................................................................................... 1
   2.2 Special Provisions ...................................................................................................... 2
      2.2.1 EPSDT Special Provision: Exception to Policy Limitations for a Medicaid
           Beneficiary under 21 Years of Age .................................................................. 2
      2.2.2 EPSDT does not apply to NCHC beneficiaries ........................................... 3
      2.2.3 Health Choice Special Provision for a Health Choice Beneficiary age 6 through
           18 years of age .............................................................................................. 3

3.0 When the Procedure, Product, or Service Is Covered ..................................................... 3
   3.1 General Criteria Covered .......................................................................................... 3
   3.2 Specific Criteria Covered ......................................................................................... 3
      3.2.1 Specific criteria covered by both Medicaid and NCHC ............................... 3
      3.2.2 Medicaid Additional Criteria Covered ......................................................... 3
      3.2.3 NCHC Additional Criteria Covered ............................................................. 3

4.0 When the Procedure, Product, or Service Is Not Covered .............................................. 4
   4.1 General Criteria Not Covered .................................................................................. 4
   4.2 Specific Criteria Not Covered .................................................................................. 4
      4.2.1 Specific Criteria Not Covered by both Medicaid and NCHC ................... 4
      4.2.2 Medicaid Additional Criteria Not Covered .................................................. 4
      4.2.3 NCHC Additional Criteria Not Covered ...................................................... 4

5.0 Requirements for and Limitations on Coverage ............................................................. 4
   5.1 Prior Approval ......................................................................................................... 4
   5.2 Prior Approval Requirements .................................................................................. 5
      5.2.1 General .......................................................................................................... 5
      5.2.2 Specific .......................................................................................................... 5
   5.3 Limitations or Requirements ................................................................................... 5

6.0 Providers Eligible to Bill for the Procedure, Product, or Service .................................... 5
   6.1 Provider Qualifications and Occupational Licensing Entity Regulations .................. 5
   6.2 Provider Certifications ............................................................................................ 5

7.0 Additional Requirements ................................................................................................ 5
   7.1 Compliance .............................................................................................................. 5

8.0 Policy Implementation/Revision Information .................................................................. 6

Attachment A: Claims-Related Information ........................................................................ 7
   A. Claim Type ................................................................................................................. 7
B. International Classification of Diseases, Tenth Revisions, Clinical Modification (ICD-10-CM) and Procedural Coding System (PCS) ................................................................................................................... 7
C. Code(s) ................................................................................................................................ 8
D. Modifiers.................................................................................................................................. 8
E. Billing Units.............................................................................................................................. 9
F. Place of Service ........................................................................................................................ 9
G. Co-payments ............................................................................................................................ 9
H. Reimbursement ....................................................................................................................... 9
1.0 Description of the Procedure, Product, or Service

Transcranial Doppler (TCD) is used for the noninvasive assessment of blood flow to the brain. The noninvasive test uses sound waves to determine the blood flow moving through the arteries to the brain. The study can assist in determining if the arteries are narrowed or blocked. A transducer (probe) placed at the neck or the temple sends an ultrasound signal. The signal is received and transmitted to a microcomputer that calculates how fast the blood is traveling through the artery. A complete TCD study may include assessment of anterior (front) or posterior (back) cerebrovascular circulation. Complete cerebrovascular ultrasound could include both carotid duplex and TCD.

1.1 Definitions

None Apply.

2.0 Eligibility Requirements

2.1 Provisions

2.1.1 General

(The term “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

(The term “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: http://www.ncdhhs.gov/dma/epsdt/

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

The Division of Medical Assistance (DMA) 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 DMA 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

Medicaid and NCHC shall cover TCD studies of the intracranial arteries for:

a. diagnoses that indicate severe stenosis or occlusion of an intracranial artery;

b. vasoconstriction following subarachnoid hemorrhage;

c. arterial venous malformation; or

d. brain death.

3.2.2 Medicaid Additional Criteria Covered

None Apply.

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

None Apply.

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

5.1 Prior Approval

Medicaid shall require prior approval for Transcranial Doppler Studies. The provider shall obtain prior approval before rendering Transcranial Doppler Studies. Refer to DMA’s clinical coverage policy 1K-7, Prior Approval for Imaging Services, on DMA’s Website at http://www.ncdhhs.gov/dma/mp/.

NCHC shall not require prior approval for Transcranial Doppler Studies.
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.

5.2.2 Specific
None Apply.

5.3 Limitations or Requirements
TCD studies are limited to one procedure per date of service by the same or different provider.
   a. Technical or professional components of TCD studies cannot to be billed on the same date of service by the same or different provider as the complete procedure.
   b. TCD studies are included in the reimbursement for surgery. Therefore, it is cannot be billed separately when performed during a surgical session.

6.0 Providers 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 DMA’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: April 1, 1992

Revision Information:

<table>
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<tr>
<th>Date</th>
<th>Section Updated</th>
<th>Change</th>
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<tbody>
<tr>
<td>12/1/06</td>
<td>Sections 2 through 5</td>
<td>A special provision related to EPSDT was added.</td>
</tr>
<tr>
<td>5/1/07</td>
<td>Sections 2 through 5</td>
<td>EPSDT information was revised to clarify exceptions to policy limitations for recipients under 21 years of age</td>
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<tr>
<td>5/1/07</td>
<td>Attachment A</td>
<td>Added UB-04 as an accepted claim form.</td>
</tr>
<tr>
<td>3/12/12</td>
<td>Throughout</td>
<td>Policy Conversion: Implementation of Session Law 2009-451, Section 10.32 “NC HEALTH CHOICE/PROCEDURES FOR CHANGING MEDICAL POLICY.”</td>
</tr>
<tr>
<td>3/12/12</td>
<td>Throughout</td>
<td>To be equivalent where applicable to NC DMA’s Clinical Coverage Policy # 1A-19 under Session Law 2011-145 § 10.41.(b)</td>
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<tr>
<td>3/12/12</td>
<td>Throughout</td>
<td>Technical changes to merge Medicaid and NCHC current coverage into one policy.</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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</table>
Attachment A: Claims-Related Information

Provider(s) shall comply with the, *NCTracks Provider Claims and Billing Assistance Guide*, Medicaid bulletins, fee schedules, DMA’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)

### B. International Classification of Diseases, 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- Code(s)</th>
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<td>I60.20</td>
<td>I63.412</td>
</tr>
<tr>
<td>I60.21</td>
<td>I63.419</td>
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</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>CPT Code</th>
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<tbody>
<tr>
<td>93886</td>
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</table>

Note: CPT codes 93888, 93890, 93892, and 93893 are included in 93886. They are not separately reimbursable on the same date of service, same or different provider, and same type of service.

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**

Inpatient, Outpatient, Office, Home, Skilled nursing facility, Intermediate care facility.

NCHC beneficiaries do not receive services in a skilled nursing facility or intermediate care facility.

G. **Co-payments**


H. **Reimbursement**

Providers shall bill their usual and customary charges.

Providers are required to bill applicable revenue codes.

For a schedule of rates, see: [http://www.ncdhhs.gov/dma/fee/](http://www.ncdhhs.gov/dma/fee/)