

Clinical Policy: EEG in the Evaluation of Headache

Reference Number: WNC.CP.144

Last Review Date: 11/2023

Coding Implications
Revision Log

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Note: When state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

Description

An electroencephalogram (EEG) is a non-invasive method for assessing neurophysiological function. EEG measures the electrical activity that is recorded from many different standard sites on the scalp according to the international (10 to 20) electrode placement system. It is a useful diagnostic test in evaluating epilepsy. This policy addresses the use of EEG in the diagnostic evaluation of headache.

Policy/Criteria

I. It is the policy of WellCare of North Carolina[®] that there is insufficient evidence in the published peer-reviewed literature to support the use of EEG in the routine evaluation of headache. EEG has not been convincingly shown to identify headache subtypes, nor has it been shown to be an effective screening tool for structural causes of headache.

Background

An EEG is an important diagnostic test in the evaluation of a patient with possible epilepsy, providing evidence that helps confirm or refute the diagnosis, as well as guide management. An EEG may also be performed for other indications, including but not limited to, states of altered consciousness, cerebral infections, and various other encephalopathies.

Headache is a common disorder with many potential causes. The primary headaches, which include migraine, tension-type headache and cluster headache, are benign and account for the majority of headaches. They are usually recurrent and have no organic disease as their cause. Secondary headaches, are less common and caused by underlying organic diseases ranging from sinusitis to subarachnoid hemorrhage.³ In most instances, the physician can accurately diagnose a patient's headache and determine whether additional laboratory testing or neuroimaging is indicated by considering the various headache types in each category (primary or secondary), obtaining a thorough headache history and performing a focused clinical examination.⁴

The presence of warning signs of a possible disorder, other than primary headache, that should prompt further investigation (e.g., limited laboratory testing, neuroimaging, lumbar puncture) include, but are not limited to:

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- Subacute and/or progressive headaches that worsen over time (months)
- A new or different headache
- Any headache of maximum severity at onset
- Headache of new onset after age 50
- Persistent headache precipitated by a Valsalva maneuver
- Evidence such as fever, hypertension, myalgias, weight loss or scalp tenderness suggesting a systemic disorder
- Presence of neurological signs that may suggest a secondary cause
- Altered mental status or seizures
- Headache associated with exertion (e.g., exercise, sexual intercourse)
- Visual disturbances

Studies designed to determine whether headache patients have an increased prevalence of EEG abnormalities report conflicting results. The American Academy of Neurology reports that EEG has no advantage over clinical evaluation in diagnosing headache, does not improve outcomes, and increases costs. A literature review of 40 articles describing EEG findings in headache patients reported that studies did not show that the EEG is an effective screening tool for structural causes of headache, nor does the EEG effectively identify headache subgroups with different prognoses.⁵

American Academy of Neurology (AAN)

AAN reports that no study has consistently demonstrated that the EEG improves diagnostic accuracy for the headache sufferer. The AAN makes the following recommendations:

- The EEG is not useful in the routine evaluation of patients with headache (guideline). This does not exclude the use of EEG to evaluate headache patients with associated symptoms suggesting a seizure disorder, such as atypical migrainous aura or episodic loss of consciousness. Assuming head imaging capabilities are readily available, EEG is not recommended to exclude a structural cause for headache (option).¹
- EEG is not recommended in the routine evaluation of a child with recurrent headaches, as it is unlikely to provide an etiology, improve diagnostic yield, or distinguish migraine from other types of headaches (Level C; class II and class III evidence).²

Although the risk for future seizures is negligible in children with recurrent headache and paroxysmal EEG, future investigations for epilepsy should be determined by clinical follow up (Level C; class II and class III evidence).²

International Headache Society

The EEG is not included in the diagnostic criteria of the International Headache Society for migraine or any other major headache categories.

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Coding Implications

This clinical policy references Current Procedural Terminology (CPT®). CPT® is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2023, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

Table 1: CPT codes not medically necessary when billed with a corresponding ICD-10-CM code in Table 2

CPT®*	Description
Codes	
95812	Electroencephalogram (EEG) extended monitoring; 41-60 minutes
95813	Electroencephalogram (EEG) extended monitoring; 61-119 minutes
95816	Electroencephalogram (EEG); including recording awake and drowsy
95819	Electroencephalogram (EEG); including recording awake and asleep
95822	Electroencephalogram (EEG); recording in coma or sleep only

Table 2: ICD-10-CM codes not medically necessary when billed with a corresponding CPT code in Table 1.

ICD-10-CM Code	Description
G43.001-G43.919	Migraine
G44.001-G44.89	Other headache syndromes
R51.0	Headache with orthostatic component, not elsewhere classified
R51.9	Headache, unspecified

Reviews, Revisions, and Approvals		Approval
	Date	Date
Original approval date		05/21
Added CPT 95822 to code list. Revised ICD-10 code from R51 to	07/21	08/21
R51.0 and added R51.9 to code list. Added additional references.		
Reviewed CPT and ICD-10-CM codes. References reviewed and		08/22
updated.		
NCHC verbiage removed from NC Guidance Verbiage.	04/23	04/23
Annual Review. Criteria verbiage changed from not medically	08/23	08/23
necessary to "is insufficient evidence in the published peer-reviewed		
literature to support."		



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Reviews, Revisions, and Approvals	Reviewed Date	Approval Date
Annual review. Name Changed from "Electroencephalography" to	11/23	11/23
"EEG in the Evaluation of Headache." Background updated with no		
clinical significance. References reviewed and updated.		

References

- 1. Practice parameter: the electroencephalogram in the evaluation of headache (summary statement). Report of the Quality Standards Subcommittee of the American Academy of Neurology. *Neurology*. 1995;45(7):1411-1413. doi:10.1212/wnl.45.7.1411 (reaffirmed April 30, 2022.)
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- 3. Hainer BL, Matheson EM. Approach to acute headache in adults. *Am Fam Physician*. 2013;87(10):682-687.
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North Carolina Guidance

Eligibility Requirements



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- a. An eligible beneficiary shall be enrolled in the NC Medicaid Program (Medicaid is NC Medicaid program, unless context clearly indicates otherwise);
- b. Provider(s) shall verify each Medicaid 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.

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.

EPSDT and Prior Approval Requirements

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- 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/

*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 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.

Compliance

Provider(s) shall comply with the following in effect at the time the service is rendered:

- 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).

Claims-Related Information

Provider(s) shall comply with the NC Tracks 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:

- a. Claim Type as applicable to the service provided:
 - Professional (CMS-1500/837P transaction)
 - Institutional (UB-04/837I transaction)
 - Unless directed otherwise, Institutional Claims must be billed according to the National Uniform Billing Guidelines. All claims must comply with National Coding Guidelines.
- 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.

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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.

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 Providers shall follow applicable modifier guidelines.
- e. Billing Units Provider(s) shall report the appropriate code(s) used which determines the billing unit(s).
- f. Co-payments For Medicaid refer to Medicaid State Plan:
 https://medicaid.ncdhhs.gov/get-involved/nc-health-choice-state-plan
- g. Reimbursement Provider(s) shall bill their usual and customary charges. For a schedule of rates, refer to: https://medicaid.ncdhhs.gov/.

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy,



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contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members/enrollees. This clinical policy is not intended to recommend treatment for members/enrollees. Members/enrollees should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

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