

Clinical Policy: Vagus Nerve Stimulation for the Treatment of Seizures

Reference Number: WNC.CP.230 Coding Implications

Last Review Date:

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.

Description¹

Vagus Nerve Stimulation (VNS) is performed by an implantable stimulator as a treatment for refractory seizures. VNS treatment sends preprogrammed, intermittent electrical pulses through the vagus nerve in the neck to the brain. These pulses originate in a small generator device that is implanted in the chest. The exact mechanism of the antiepileptic effects of VNS are not fully understood, but the procedure may reduce the severity or the frequency of seizures in selected candidates who have an intact vagus nerve.

Policy/Criteria¹

- I. WellCare of North Carolina® shall cover VNS for the treatment of seizures when it is determined to be medically necessary because **BOTH** of the following criteria are met:
 - A. The member has medically refractory* seizures; AND
 - **B.** The member has failed or is not eligible for surgical treatment.
 - *Seizures that occur in spite of therapeutic levels of anti-epileptic drugs **or** seizures that cannot be treated with therapeutic levels of anti-epileptic drugs because of intolerable adverse side effects.
- II. WellCare of North Carolina® shall not cover VNS for the treatment of seizures for indications that do not meet the criteria above; and for:
 - **A.** Members who can be treated successfully with anti-epileptic drugs
 - **B.** Treatment of members with depression.
 - **C.** Treatment of essential tremor.
 - **D.** Treatment of headaches
 - **E.** Treatment of obesity.

Background¹

Approximately 40 percent of **all** individuals with epilepsy have medically refractory seizures. Primarily generalized seizures are the most common type of intractable seizures in children; while in adults, complex partial seizures are the most common intractable seizure type. Medically refractory seizures are those seizures that are not completely controlled by medical



therapy. That means that seizures continue to occur despite treatment with a maximally tolerated dose of a first line anti-epilepsy drug (AED) as monotherapy or in at least **one** combination with an adjuvant medication. The terms "intractable" or "medically refractory" are interchangeable.

In the past 10 years, significant advances have occurred in surgical treatment for epilepsy and in medical treatment of epilepsy with newly developed and approved medications. Despite these advances, however, 25–50 percent of patients with epilepsy experience breakthrough seizures or suffer from debilitating adverse effects of antiepileptic drugs. Vagus Nerve Stimulation (VNS) has been investigated as a treatment alternative in patients with medically refractory partial-onset seizures for whom surgery is not recommended or for whom surgery has failed.

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 2024, 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.

CPT®* Codes	Description			
61885	Insertion or replacement of cranial neurostimulator pulse generator or receiver, direct or inductive coupling; with connection to a single electrode array			
61886	Insertion or replacement of cranial neurostimulator pulse generator or receiver, direct or inductive coupling; with connection to 2 or more electrode arrays			
61888	Revision or removal of cranial neurostimulator pulse generator or receiver			
64568	Open implantation of cranial nerve (e.g., vagus nerve) neurostimulator electrode array and pulse generator			
64569	Open replacement of cranial nerve (e.g., vagus nerve) neurostimulator electrode array, including connection to existing pulse generator			
64570	Removal of cranial nerve (e.g., vagus nerve) neurostimulator electrode array and pulse generator			
64585	Revision or removal of peripheral neurostimulator electrode array			
95970	Electronic analysis of implanted neurostimulator pulse generator/transmitter (e.g., contact group[s], interleaving, amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive neurostimulation, detection algorithms, closed loop parameters, and passive parameters) by physician or other qualified health care professional; with brain, cranial nerve, spinal cord, peripheral nerve, or sacral nerve, neurostimulator pulse generator/transmitter, without programming			
95976	Electronic analysis of implanted neurostimulator pulse generator/transmitter (e.g., contact group[s], interleaving, amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive			



CPT®* Codes	Description
	neurostimulation, detection algorithms, closed loop parameters, and passive parameters) by physician or other qualified health care professional; with simple cranial nerve neurostimulator pulse generator/transmitter programming by physician or other qualified health care professional
95977	Electronic analysis of implanted neurostimulator pulse generator/transmitter (e.g., contact group[s], interleaving, amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive neurostimulation, detection algorithms, closed loop parameters, and passive parameters) by physician or other qualified health care professional; with complex cranial nerve neurostimulator pulse generator/transmitter programming by physician or other qualified health care professional
95983	Electronic analysis of implanted neurostimulator pulse generator/transmitter (e.g., contact group[s], interleaving, amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive neurostimulation, detection algorithms, closed loop parameters, and passive parameters) by physician or other qualified health care professional; with brain neurostimulator pulse generator/transmitter programming, first 15 minutes face-to-face time with physician or other qualified health care professional
95984	Electronic analysis of implanted neurostimulator pulse generator/transmitter (e.g., contact group[s], interleaving, amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive neurostimulation, detection algorithms, closed loop parameters, and passive parameters) by physician or other qualified health care professional; with brain neurostimulator pulse generator/transmitter programming, each additional 15 minutes face-to-face time with physician or other qualified health care professional

ICD-10-CM Diagnosis Codes that Support Coverage Criteria + Indicates a code(s) requiring an additional character

ICD-	Description			
10-CM				
Code				
G40.001	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with			
	seizures of localized onset, not intractable, with status epilepticus			
G40.009	calization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with			
	res of localized onset, not intractable, without status epilepticus			
G40.011	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with			
	seizures of localized onset, intractable, with status epilepticus			
G40.019	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with			
	seizures of localized onset, intractable, without status epilepticus			
G40.101	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes			
	with simple partial seizures, not intractable, with status epilepticus			
G40.109	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes			
	with simple partial seizures, not intractable, without status epilepticus			



G40.111	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, with status epilepticus			
G40.119				
G40.119	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, without status epilepticus			
G40.201	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes			
	with complex partial seizures, not intractable, with status epilepticus			
G40.209	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes			
G40.20)	with complex partial seizures, not intractable, without status epilepticus			
G40.211	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes			
	with complex partial seizures, intractable, with status epilepticus			
G40.219	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes			
G40.217	\			
C40.201	with complex partial seizures, intractable, without status epilepticus			
G40.301	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, with status			
	epilepticus			
G40.309	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, without			
	status epilepticus			
G40.311	Generalized idiopathic epilepsy and epileptic syndromes, intractable, with status			
	epilepticus			
G40.319	Generalized idiopathic epilepsy and epileptic syndromes, intractable, without status			
G40.517	epilepticus			
C40 401				
G40.401	Other generalized epilepsy and epileptic syndromes, not intractable, with status			
	epilepticus			
G40.409	Other generalized epilepsy and epileptic syndromes, not intractable, without status			
	epilepticus			
G40.411	Other generalized epilepsy and epileptic syndromes, intractable, with status			
	epilepticus			
G40.419	Other generalized epilepsy and epileptic syndromes, intractable, without status			
	epilepticus			
G40.501	Epileptic seizures related to external causes, not intractable, with status epilepticus			
G40.509	Epileptic seizures related to external causes, not intractable, without status			
	epilepticus			
G40.801	Other epilepsy, not intractable, with status epilepticus			
G40.802	Other epilepsy, not intractable, without status epilepticus			
G40.803	Other epilepsy, intractable, with status epilepticus			
G40.804	Other epilepsy, intractable, without status epilepticus			
G40.811	Lennox-Gastaut syndrome, not intractable, with status epilepticus			
G40.812	Lennox-Gastaut syndrome, not intractable, without status epilepticus			
G40.813	Lennox-Gastaut syndrome, intractable, with status epilepticus			
G40.814	Lennox-Gastaut syndrome, intractable, without status epilepticus			
G40.821	Epileptic spasms, not intractable, with status epilepticus			
G40.822	Epileptic spasms, not intractable, without status epilepticus			
G40.823	Epileptic spasms, intractable, with status epilepticus			
G40.824	Epileptic spasms, intractable, without status epilepticus			
G40.84	KCNQ2-related epilepsy			



G40.841	KCNQ2-related epilepsy, not intractable, with status epilepticus		
G40.842	KCNQ2-related epilepsy, not intractable, without status epilepticus		
G40.843	KCNQ2-related epilepsy, intractable, with status epilepticus		
G40.844	KCNQ2-related epilepsy, intractable, without status epilepticus		
G40.89	Other seizures		
G40.901	Epilepsy, unspecified, not intractable, with status epilepticus		
G40.909	Epilepsy, unspecified, not intractable, without status epilepticus		
G40.A01	Absence epileptic syndrome, not intractable, with status epilepticus		
G40.A09	Absence epileptic syndrome, not intractable, without status epilepticus		
G40.A11	Absence epileptic syndrome, intractable, with status epilepticus		
G40.A19	Absence epileptic syndrome, intractable, without status epilepticus		
G40.B01	Juvenile myoclonic epilepsy, not intractable, with status epilepticus		
G40.B09	Juvenile myoclonic epilepsy, not intractable, without status epilepticus		
G40.B11	Juvenile myoclonic epilepsy, intractable, with status epilepticus		
G40.B19	Juvenile myoclonic epilepsy, intractable, without status epilepticus		
T85.110A	Breakdown (mechanical) of implanted electronic neurostimulator of brain electrode		
	(lead), initial encounter		
T85.111A			
	electrode (lead), initial encounter		
T85.118A			
	initial encounter		
T85.120A	1 1		
	initial encounter		
T85.128A			
707.106	encounter		
T85.190A	Other mechanical complication of implanted electronic neurostimulator of brain		
707.106	electrode (lead), initial encounter		
T85.199A	Other mechanical complication of other implanted electronic stimulator of nervous		
	system, initial encounter		

Reviews, Revisions, and Approvals	Reviewed Date	Approval Date
Original approval date	04/21	06/21
Reviewed CPT and ICD-10-CM codes.	08/21	11/21
Annual Review. Reviewed CPT and ICD-10-CM codes, verbiage	08/22	08/22
change without criteria change for CPT 64568 64569		
NCHC verbiage removed from NC Guidance Verbiage	04/23	04/23
Annual Review. CPT and ICD-10-CM codes reviewed.	08/23	08/23
Annual Review. Removed "Medicaid and Health Choice" verbiage	08/24	08/24
from References. Removed HCPCS code box. Changed "beneficiary"		
to "member."		
Annual Review. Added ICD-10 codes G40.84, G40.841, G40.842,		
G40.843, G40.844.		

References

1. State of North Carolina Medicaid Clinical Coverage Policy No: 1A-33 Vagus Nerve Stimulation for the Treatment of Seizures. Program Specific Clinical Coverage Policies NC Medicaid (ncdhhs.gov). Published November 1, 2024. Accessed November 7, 2024.

North Carolina Guidance

Eligibility Requirements

- 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

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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

- 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:

- 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).

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.

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- 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.
- 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, 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.

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