Important note:
Unless otherwise indicated, this policy will apply to all lines of business.
Even though this policy may indicate that a particular service or supply may be considered medically necessary and thus covered, this conclusion is not based upon the terms of your particular benefit plan. Each benefit plan contains its own specific provisions for coverage and exclusions. Not all benefits that are determined to be medically necessary will be covered benefits under the terms of your benefit plan. You need to consult the Evidence of Coverage (EOC) or Summary Plan Description (SPD) to determine if there are any exclusions or other benefit limitations applicable to this service or supply. If there is a discrepancy between this policy and your plan of benefits, the provisions of your benefits plan will govern. However, applicable state mandates will take precedence with respect to fully insured plans and self-funded non-ERISA (e.g., government, school boards, church) plans. Unless otherwise specifically excluded, Federal mandates will apply to all plans. With respect to Medicare-linked plan members, this policy will apply unless there are Medicare policies that provide differing coverage rules, in which case Medicare coverage rules supersede guidelines in this policy. Medicare-linked plan policies will only apply to benefits paid for under Medicare rules, and not to any other health benefit plan benefits. CMS’s Coverage Issues Manual can be found on the CMS website. Similarly, for Medicaid-linked plans, the Texas Medicaid Provider Procedures Manual (TMPPM) supersedes coverage guidelines in this policy where applicable.

SERVICE: Seizure Disorders: Invasive Treatments (Epilepsy Surgery)

PRIOR AUTHORIZATION: Required.

POLICY: Please review the plan’s EOC (Evidence of Coverage) or Summary Plan Description (SPD) for coverage details.

For Medicare plans, please refer to appropriate Medicare LCD (Local Coverage Determination). If there is no applicable LCD, use the criteria set forth below.

For Medicaid plans, please confirm coverage as outlined in the Texas Medicaid TMPPM.

SWHP/FirstCare considers cerebral hemispherectomy, corpus callosotomy, and temporal lobectomy medically necessary when ALL of the following criteria are met:

1. Member is at least 18 years old; AND
2. Non-epileptic events or conditions such as cardiogenic syncope and psychogenic seizures have been ruled out; AND
3. The diagnosis of epilepsy has been documented, and the epileptic seizure type and the epileptic syndrome has been clearly defined; AND
4. Seizures occur at a frequency that interferes with members’ daily living and threatens their well-being; AND
5. There has been an adequate trial of drug therapy, with at least two appropriate antiepileptic medications at therapeutic levels, and with member compliance.

Responsive neurostimulation (RNS) (e.g., the NeuroPace RNS System) may be determined medically necessary for adults with intractable focal aware seizures (partial onset seizures when the following criteria are met:

1. Member is at least 18 years old; AND
2. Non-epileptic events or conditions such as cardiogenic syncope and psychogenic seizures have been ruled out; AND
3. The diagnosis of epilepsy has been documented, and the epileptic seizure type and the epileptic syndrome has been clearly defined; AND

4. Seizures occur at a frequency (average of 3 per month over recent 3-month period) that interferes with members' daily living and threatens their well-being; AND

5. There has been an adequate trial of drug therapy, with at least two appropriate antiepileptic medications at therapeutic levels, and with member compliance: AND

6. The member has no more than two epileptogenic regions; AND

7. Member is not a candidate for resective epilepsy surgery because epileptic focus is near regions of concern e.g., language or memory; AND

8. The member has ability, or has the necessary assistance, to properly operate the device; AND

9. Member has none of the following contraindications:
   - Three or more specific seizure foci
   - Presence of generalized epilepsy
   - Presence of rapidly progressive neurologic disorder
   - Presence of other implanted medical devices that deliver electrical energy to the brain

   RNS is considered experimental, investigational, or unproven for all other indications.

   Cerebral hemispherectomy, corpus callosotomy, and temporal lobectomy are considered experimental and investigational when selection criteria are not met.

   Cerebellar stimulation or deep brain stimulation for members with intractable seizures is experimental and investigational because their effectiveness for this indication has not been established.

   Localized neocortical resections are considered experimental and investigational for uncontrolled complex partial seizures because its effectiveness has not been established.

   Hippocampal electrical stimulation for the treatment of mesial-temporal lobe epilepsy is experimental and investigational because its effectiveness has not been established.

   The use of stereotactic radiosurgery including radiofrequency amygdalohippocampectomy for medial temporal lobe epilepsy and epilepsy arising in other functional cortical regions is experimental and investigational because its effectiveness has not been established.

   High-Frequency Oscillations in epilepsy surgery planning is experimental and investigational because its effectiveness has not been established.

SWHP/FirstCare requires prior authorization for all procedures as well as for planning procedures if epilepsy surgery is under consideration. Only evidence-based services as outlined in this policy will be authorized.

OVERVIEW: Patients who have intractable epileptic seizures despite adequate treatment with appropriate antiepileptic drugs, can be offered relief with surgery. The goal of epilepsy surgery or
other invasive treatments for intractable seizures is to decrease the frequency of seizures and improve quality of life.

Temporal lobectomy has been found to be safe and effective for treating patients with complex partial seizures of temporal or extratemporal origin. Patients who have a single identifiable focus in a restricted cortical area that can be safely excised without producing additional disability can be considered as candidates for temporal lobectomy.

Corpus callosotomy has been found to be safe and effective for treating patients with partial and secondarily generalized seizures.

There is only limited evidence that cerebral hemispherectomy is effective in managing unilateral multifocal epilepsy associated with infantile hemiplegia (especially in hemimegalencephaly and Sturge-Weber disease). However, it is the last hope for these patients to eliminate/alleviate their disabling epileptic seizures, and to avoid adverse irreversible psychosocial consequences that may lead to lifelong disability.

Candidates for epilepsy surgery and their family, if applicable, should receive detailed information regarding the specific surgical procedures and their possible benefits and side effects. Candidates for epilepsy surgery should not have co-existent progressive neurological disease or major psychological or medical disorder. Persons with progressive neurological diseases or major medical or psychological disorders are generally unsuitable candidates for epilepsy surgery because of the possibility that surgery could worsen the course of these other conditions.

The Wada test (intra-carotid amytal procedure) is commonly used as a predictor of memory dysfunction following temporal lobectomy for intractable epilepsy. Asymmetry in memory scores can provide focus lateralizing information.

The Agency for Healthcare Research and Quality's technology assessment on the management of treatment-resistant epilepsy stated that the data are inconsistent across studies and do not allow for clear evidence-based conclusions as to the exact proportion of patients who will become seizure-free or who will not benefit from multiple subpial transection. In addition, too few studies were available to allow for an evidence-based evaluation of parietal or occipital lobe surgery (Chapell, et al., 2003). The American Academy of Neurology's practice parameter on temporal lobe and localized neocortical resections for epilepsy stated that there remains no Class I or II evidence regarding the safety and efficacy of localized neocortical resections. Further studies are needed to determine if neocortical seizures benefit from surgery.

MANDATES: None

Important note:
CODES: Due to the wide range of applicable diagnosis codes and potential changes to codes, an inclusive list may not be presented, but the following codes may apply. Inclusion of a code in this section does not guarantee that it will be reimbursed, and patient must meet the criteria set forth in the policy language.

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<tr>
<th>CPT Codes:</th>
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Seizure Disorders: Invasive Treatments (Epilepsy Surgery)

Policy Number: 013
Effective Date: 11/01/2020
Last Review: 09/24/2020
Next Review Date: 09/24/2020

G40.311 - G40.319
G40.411 - G40.419
G40.803, G40.804, G40.811, G40.813, G40.814, G40.823 - G40.824
G40.911 - G40.919

CMS: No NCD or LCD.

POLICY HISTORY:

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REFERENCES:
The following scientific references were utilized in the formulation of this medical policy. SWHP/FirstCare will continue to review clinical evidence related to this policy and may modify it at a later date based upon the evolution of the published clinical evidence. Should additional scientific studies become available and they are not included in the list, please forward the reference(s) to SWHP/FirstCare so the information can be reviewed by the Medical Coverage Policy Committee (MCPC) and the Quality Improvement Committee (QIC) to determine if a modification of the policy is in order.