Policy: MP330  
Section: Medical Benefit Policy  
Subject: Responsive Neurostimulation

I. Policy: Responsive Neurostimulation

II. Purpose/Objective:  
To provide a policy of coverage regarding Responsive Neurostimulation

III. Responsibility:  
A. Medical Directors  
B. Medical Management

IV. Required Definitions

1. Attachment – a supporting document that is developed and maintained by the policy writer or department requiring/authoring the policy.
2. Exhibit – a supporting document developed and maintained in a department other than the department requiring/authoring the policy.
3. Devised – the date the policy was implemented.
4. Revised – the date of every revision to the policy, including typographical and grammatical changes.
5. Reviewed – the date documenting the annual review if the policy has no revisions necessary.

V. Additional Definitions
Medical Necessity or Medically Necessary means Covered Services rendered by a Health Care Provider that the Plan determines are:

a. appropriate for the symptoms and diagnosis or treatment of the Member’s condition, illness, disease or injury;
b. provided for the diagnosis, and the direct care and treatment of the Member’s condition, illness disease or injury;
c. in accordance with current standards of good medical treatment practiced by the general medical community.
d. not primarily for the convenience of the Member, or the Member’s Health Care Provider; and
e. the most appropriate source or level of service that can safely be provided to the Member. When applied to hospitalization, this further means that the Member requires acute care as an inpatient due to the nature of the services rendered or the Member's condition, and the Member cannot receive safe or adequate care as an outpatient.

Medicaid Business Segment
Medical Necessity shall mean a service or benefit that is compensable under the Medical Assistance Program and if it meets any one of the following standards:

(i) The service or benefit will, or is reasonably expected to, prevent the onset of an illness, condition or disability.
(ii) The service or benefit will, or is reasonably expected to, reduce or ameliorate the physical, mental or development effects of an illness, condition, injury or disability.
(iii) The service or benefit will assist the Member to achieve or maintain maximum functional
capacity in performing daily activities, taking into account both the functional capacity of the Member and those functional capacities that are appropriate for members of the same age.

DESCRIPTION: The Responsive Neurostimulation System (RNS) is used to treat adult members with partial onset epilepsy who have failed treatment with at least 2 seizure medications and who are not candidates for resection of their seizure focus. About one-third of members with epilepsy have seizures that are poorly controlled with medications alone. Members are considered candidates for RNS after comprehensive diagnostic testing that has localized one or two seizure foci, but are determined not to be candidates for surgical resection for a particular reason. These reasons include seizures that originate from more than one area of the brain, seizures that arise from areas of the brain that cannot be resected without causing a deficit, or seizures that are difficult to discretely localize.

INDICATIONS: Responsive Neurostimulation will be considered medically necessary when ALL of the following criteria are met:

• Diagnosis of focal (aka, partial) epilepsy has been established; and
• The member is 18 years or older; and
• Medical record documentation of failure of two (2) or more antiepileptic medications; and
• No more than two (2) well-localized foci have been identified by diagnostic testing; and
• The member experiences an average of three (3) or more disabling seizures per month over the prior three months; and
• The member is not a candidate for a focal resection of the epileptogenic foci; and
• There is no evidence of a rapidly progressive neurologic disorder; and
• There is no evidence of a primary generalized epilepsy

LIMITATIONS:
The replacement/revision of a responsive neurostimulator is considered medically necessary for members who meet all of the above criteria, when the existing device is no longer under warranty and cannot be repaired.

EXCLUSIONS: The Plan does NOT provide coverage for Responsive Neurostimulation for any diagnosis other than those listed above because it is considered experimental, investigational or unproven. There is insufficient evidence in the peer-reviewed published medical literature to establish the effectiveness of this treatment on health outcomes when compared to established treatments or technologies.

Note: A complete description of the process by which a given technology or service is evaluated and determined to be experimental, investigational or unproven is outlined in MP 15 - Experimental Investigational or Unproven Services or Treatment.

CODING ASSOCIATED WITH: Responsive Neurostimulation
The following codes are included below for informational purposes and may not be all inclusive. Inclusion of a procedure or device code(s) does not constitute or imply coverage nor does it imply or guarantee provider reimbursement. Coverage is determined by the member specific benefit plan document and any applicable laws regarding coverage of specific services. Please note that per Medicare coverage rules, only specific CPT/HCPCS Codes may be covered for the Medicare Business Segment. Please consult the CMS website at www.cms.gov or the local Medicare Administrative Carrier (MAC) for more information on Medicare coverage and coding requirements.

61850 Twist drill or burr hole(s) for implantation of neurostimulator electrodes, cortical
61860 Craniectomy or craniotomy for implantation of neurostimulator electrodes, cerebral, cortical
61863 Twist drill, burr hole, craniotomy, or craniectomy with stereotactic implantation of neurostimulator electrode array in subcortical site (eg, thalamus, globus pallidus, subthalamic nucleus, periventricular, periaqueductal gray), without use of intraoperative microelectrode recording; first array
61864 Twist drill, burr hole, craniotomy, or craniectomy with stereotactic implantation of neurostimulator electrode array in subcortical site (eg, thalamus, globus pallidus, subthalamic nucleus, periventricular, periaqueductal gray), without use of intraoperative microelectrode recording; each additional array (List separately in addition to primary procedure)
61880 Revision or removal of intracranial neurostimulator electrodes
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
95970 Electronic analysis of implanted neurostimulator pulse generator/transmitter (eg, contact group(s), interleaving,
amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive neurostimulation, detectopm 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

95971 Electronic analysis of implanted neurostimulator pulse generator/transmitter (eg, contact group(s), interleaving, amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive neurostimulation, detectopm algorithms, closed loop parameters, and passive parameters) by physician or other qualified health care professional; with simple spinal cord or peripheral nerve (eg, sacral nerve) neurostimulator pulse generator/transmitter programming by physician or other qualified health care professional

95983 Electronic analysis of implanted neurostimulator pulse generator/transmitter (eg, contact group(s), interleaving, amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive neurostimulation, detectopm 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 (eg, contact group(s), interleaving, amplitude, pulse width, frequency [Hz], on/off cycling, burst, magnet mode, dose lockout, patient selectable parameters, responsive neurostimulation, detectopm 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 (List separately in addition to code for primary procedure)

C1767 Generator neurostimulator (implantable) non-rechargeable
C1778 Lead, neurostimulator (implantable)
C1787 Patient programmer, neurostimulator
C1816 Receiver and/or transmitter, neurostimulator (implantable)
C1820 Generator, neurostimulator (implantable), non high frequency with rechargeable battery and charging system
C1822 Generator, neurostimulator (implantable), high frequency with rechargeable battery and charging system
C1897 Lead, neurostimulator test kit (implantable)
L8680 Implantable neurostimulator electrode, each
L8682 Implantable neurostimulator radiofrequency receiver
L8683 Radiofrequency transmitter (external) for use with implantable neurostimulator radiofrequency receiver
L8685 Implantable neurostimulator pulse generator, single array, rechargeable includes extension
L8686 Implantable neurostimulator pulse generator, single array, non-rechargeable, includes extension
L8687 Implantable neurostimulator pulse generator, dual array, rechargeable, includes extension
L8688 Implantable neurostimulator pulse generator, dual array, non-rechargeable, includes extension
L8689 External recharging system for battery (internal) for use with implantable neurostimulator, replacement only


**LINE OF BUSINESS:**
Eligibility and contract specific benefits, limitations and/or exclusions will apply. Coverage statements found in the line of business specific benefit document will supersede this policy. For Medicare, applicable LCD’s and NCD’s will supercede this policy. For PA Medicaid Business segment, this policy applies as written.

**REFERENCES:**
Geisinger Technology Assessment Committee Triage Group. September 2018


This policy will be revised as necessary and reviewed no less than annually.