Corporate Medical Policy
Cognitive Rehabilitation

**Description of Procedure or Service**

Cognitive Rehabilitation Therapy (CRT) is therapeutic treatment provided to retrain the injured brain in its cognitive abilities of memory, decision making, focus, perception, planning, and learning. CRT is usually one component within a comprehensive brain injury plan of care that includes instruction and feedback, repetition, and memory stimulating aids. The expected outcome is demonstrated through social, communication, behavior, and academic/vocational performance.

**Background**

CRT is used in addition to other therapies to treat cognitive deficits (e.g., attention, language, memory, decision making, perception, sequencing, problem solving, and visual processing) that are the result of brain injury or traumatic brain injury.

Services are directed to achieve functional changes by:

A. Reinforcing, strengthening or establishing previously learned patterns of behavior, or
B. Establishing new patterns of cognitive activity or mechanisms to compensate for impaired neurological systems.

This may be referred to by other names including: cognitive therapy, neurocognitive therapy, neurocognitive rehab, neuro rehabilitation, post or subacute brain injury program, comprehensive day neuro treatment. The treatment regimen usually includes one of the following modalities:

A. Specific interventions for functional communication deficits, including pragmatic conversational skills, or
B. Compensatory memory strategy training.

Services may be provided by an occupational therapist, physical therapist, speech/language pathologist, neuropsychologist, or a physician. Care Plans may vary depending on the individuality of the patient and the type/effect of injury. A panel assembled by the National Institute of Health (NIH, 1999) noted these plans of care share common characteristics in that they are structured, systematic, goal directed, and individualized and they involve learning, practice, social contact, and are relevant.

Centers for Disease Control and Prevention (CDC) define traumatic brain injury as "a traumatic brain injury is caused by a bump, blow or jolt to the head or a penetrating head injury that disrupts the normal function of the brain." These injuries are principally the result of motor vehicle accidents, violence, sports injuries, and falls.
Brain injury other than traumatic brain injury is defined as damage to the brain due to stroke, aneurysm, anoxia, encephalitis, brain tumors, and brain toxins. Either type of injury may result in significant physical, cognitive, and psychosocial impairment in functioning and consciousness.

**Regulatory Status**

There is no currently referenced national regulatory body for CRT.

**Policy Statement**

GEHA will provide coverage for Cognitive Rehabilitation (as a distinct and definable component of the rehabilitation process) when it is determined to be medically necessary because the medical criteria and guidelines as documented below have been demonstrated.

Note: For information related to coma stimulation, please specifically refer to GEHA Policy: Sensory Stimulation in Coma.

**Benefit Application**

Coverage of outpatient cognitive rehabilitation is subject to this coverage policy and GEHA’s benefit as defined by in the current member benefit brochure

**When treatment for Cognitive Rehabilitation is covered**

Cognitive Rehabilitation (as a distinct and definable component of the rehabilitation process) may be covered when clinical documentation supports the presence of each of the following:

1. Neuropsychological testing has been performed and neuropsychological results will be used in treatment-planning and directing rehabilitation strategies, and
2. The cognitive deficits have been acquired as a result of neurologic impairment due to moderate to severe traumatic brain injury or cerebrovascular accident, and
3. The member has been seen and evaluated by a neuropsychiatrist or neuropsychologist, and
4. The member is able to actively participate in a cognitive rehabilitation program (e.g., is not comatose or in a vegetative state); and
5. The member is expected to make significant cognitive improvement.

**When treatment for Cognitive Rehabilitation is not covered**

Cognitive Rehabilitation (as a distinct and definable component of the rehabilitation process) is not covered when the clinical documentation fails to provide evidence to demonstrate the criteria set forth in this policy.

Cognitive Rehabilitation is not covered for other diagnosis including but not limited to:

A. Cerebral palsy  
B. Down syndrome  
C. Alzheimer’s disease  
D. Attention deficit hyperactivity disorder  
E. Developmental disorders (autism)
F. Schizophrenia
G. Parkinson’s disease
H. Epilepsy/seizure disorders,
I. Learning disabilities
J. Mental retardation
K. Dementia including vascular dementia
L. Cognitive or memory decline caused by multiple sclerosis, chronic obstructive pulmonary
disease or other chronic disease
M. Mild traumatic brain injury including sports-related concussion
N. Bipolar disorder
O. Depression
P. Social phobia
Q. Substance abuse disorders
R. Fetal Alcohol Syndrome
S. Chemotherapy Induced Cognitive Dysfunction
T. Post-anoxic encephalopathy

Policy Guidelines

In 2016, the Department of Veteran Affairs and Department of Defense (VA/DOD) updated their clinical practice guidelines for treatment of traumatic brain injury and concussion (mTBI). The guideline recommends that patients of mTBI who demonstrate cognitive symptoms related to memory, attention, or judgement beyond 30 days post trauma and have not responded to treatment for such symptoms be referred to a cognitive rehabilitation program. Assessment of improvement outcomes should continue. Continuance of a cognitive rehabilitation program without patient improvement is not necessary.

The International Group of Researchers and Clinicians (INCOG) (Bayley, et al., 2014) published guidance regarding assessment and rehabilitation of Traumatic Brain Injury. They recommended rehabilitation interventions specifically tailored to each patient often involving the patient’s home or work needs. This may include restorative therapy accompanied by functional adaption, compensation and manipulating the environment to overcome a TBI inflicted disability.

The Agency for Healthcare Research and Quality (AHRQ) (Basure, et al, 2016) issued a comparative effectiveness review on multidisciplinary CR for moderate to severe TBI in adults. The goal was to identify the most effective multidisciplinary post-acute rehabilitation interventions for this population. The authors concluded that the body of evidence is not informative regarding effectiveness or comparative effectiveness of multidisciplinary post-acute rehabilitation, stating that failure to draw broad conclusions must not be misunderstood to be evidence of ineffectiveness. According to the authors, the limited evidence on this topic stems from the complexity of the condition and treatments resulting in limited available research and from limitations within that research to answer salient research questions about what works for which patients. Further research was suggested to address methodological flaws in such studies as well as ongoing questions regarding efficacy.
Provider Documentation

Services must be ordered by a physician and must include the specific professional skills the patient needs, the medical necessity for the therapy, and an anticipated length of time the services are needed.

Authorizations are concurrent, based on medical necessity, and ongoing therapy approval is based on documented measureable progress towards established long term and short term specific, quantitative, and objective treatment goals that are documented in the member’s treatment record. Services must performed either by an Occupational Therapist, Physical Therapist, Speech Therapist, neuropsychologist or other psychologist, neuropsychiatrist, psychiatrist or other physician.

Documentation must include the above mentioned items in addition to:

A. Initial cognitive therapy evaluation
B. Specific interventions for functional communication deficits (if applicable)
C. Compensatory memory strategy training
D. Diagnosis along with date of onset
E. The frequency and duration of each treatment
F. The specific techniques that make up the plan of care
G. Progress notes and re-evaluation assessment (for concurrent reviews)
H. Evidence that supports the criteria set forth in this policy.

Applicable Codes

97127  Therapeutic interventions that focus on cognitive function (e.g., attention, memory, reasoning, executive function, problem solving, and/or pragmatic functioning) and compensatory strategies to manage the performance of an activity (e.g., managing time or schedules, initiating, organizing and sequencing tasks), direct (one-on-one) patient contact.

97537  Community/work reintegration training (e.g., shopping, transportation, money management, avocational activities and/or work environment/modification analysis, work task analysis, use of assistive technology device/adaptive equipment), direct one-on-one contact, each 15 minutes

G0515  Development of cognitive skills to improve attention, memory, problem solving (includes compensatory training), direct (one-on-one) patient contact, each 15 minutes

Scientific references


**Policy implementation and updates**

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