# Payment Policy | Digital Electroencephalogram (DEEG)



**EFFECTIVE DATE:** 12 | 01 | 2014 **POLICY LAST UPDATED:** 08 | 05 | 2014

## **OVERVIEW**

Ambulatory electroencephalography (AEEG) monitoring allows a prolonged electroencephalographic recording of the electrical current potential or brain activity through the skull. EEG is generally used to show brain activity of patients who suffer from epilepsy during a seizure event and between seizure events. Digital electroencephalography (DEEG) is the paperless acquisition, recording and analysis of the EEG via computer-based instrumentation, with waveform storage in a digital format on electronic media, and waveform display on an electronic monitor or other computer output device.

### PRIOR AUTHORIZATION

Not Applicable.

#### **POLICY STATEMENT**

# Blue CHiP for Medicare and Commercial

Digital analysis of electroencephalogram is a covered service, but is not separately reimbursed.

## **MEDICAL CRITERIA**

Not applicable.

## **BACKGROUND**

The procedure for an EEG involves placing a series of electrodes, with at least four recording channels, on the patient. A very low electrical current is sent through the electrodes and the baseline brain energy is recorded on a diagnostic machine. Electrical activity is recorded and analyzed. Patients are then exposed to a variety of external stimuli, including bright or flashing light, noise or certain drugs, or asked to open and close their eyes, or to change breathing patterns. The electrodes transmit the resulting changes in brain wave patterns. Variations in wave characteristics correlate with neurological conditions and are used to diagnose specific medical conditions. Virtually all contemporary EEG recordings use digital recording methods, which involves the use of a digital EEG recorder (machine), but still involves visual analysis of the wave forms.

Digital analysis requires the use of quantitative analytical techniques. Data selection, quantitative software processing and dipole source analysis are some of the techniques utilized. Ideally, DEEG creates a recording on a digital medium without the loss of anything except the paper itself. Digital EEG allows for simple but extremely useful digital utilities such as post hoc changes in filters, horizontal and vertical display scale and montage reformatting that allow greater flexibility in reading the EEG. These tools allow for better visual reading of the record that can be achieved with an analog paper record.

Digital EEG is significantly more comprehensive than just a digital recording of the EEG. Digital EEG represents an EEG with extensive digital analysis over a traditional EEG or digital recording. In general, this would entail an extra hour's work by the technician to process the data from the EEG, and an extra 20-30 minutes of physician time to review the technician's work and review the data produced.

## **COVERAGE**

Benefits may vary between groups/contracts. Please refer to the appropriate Evidence of Coverage or Subscriber Agreement for limitations of benefits/coverage for diagnostic testing.

## **CODING**

# BlueCHiP for Medicare and Commercial

The following code is not separately reimbursed:

95957

## **RELATED POLICIES**

Non Reimbursable Health Service Codes

## **PUBLISHED**

Provider Update Oct 2014

#### **REFERENCES**

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- 2. Faulkner H. et al. The utility of prolonged outpatient ambulatory EEG. Seizure (September 2012); 21(7):491-5.
- 3. Long Term Monitoring for Epilepsy. Electroencephalography and Clinical Neurophysiology (1993) 87: 437-458.
- 4. Nuwer M. Assessment of digital EEG, quantitative EE and EEG brain mapping: Report of the American Academy of Neurology and the American Clinical Neurophysiology Society. Neurology 1997; 49:277-292.
- 5. Nayak DS, Sajeesh P. Technical standards for digital electroencephalogram recording in epilepsy practice. Ann Indian Accad Neurol 2007:10:121-7.
- 6. Van Cott A, Brenner RP. Technical advantages of digital EEG. J Clin Neurophys 1998;15(6):464-75.
- 7. American Academy of Neurology. http://www.aan.com/go/practice/coding/faqs

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