

What is Electroencephalogram (EEG)?

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About Electroencephalogram (EEG):

- An EEG is a **recording of brain activity**.
- It is a test that **detects abnormalities** in your brain waves, **or** in the **electrical activity of your brain**.
- **Procedure:**
 - The procedure may be **short**, often just a 30-minute recording.
 - During the procedure, **electrodes** consisting of small metal discs with thin wires **are pasted onto your scalp**.
 - The electrodes **detect tiny electrical charges** that result from the activity of your brain cells.
 - The **charges are amplified** and **appear as a graph** on a computer screen or as a recording that may be printed out on paper.
 - The EEG procedure is usually **carried out** by a highly trained specialist, called a **clinical neurophysiologist**.
- **Applications:**
 - The EEG is **used to evaluate several types of brain disorders**. **Examples:**
- When epilepsy is present, seizure activity will appear as rapid spiking waves on the EEG.

- People with lesions of their brain, which can result from tumors or strokes, may have unusually slow EEG waves, depending on the size and location of the lesion.

The EEG may also be **used to determine** the **overall electrical activity of the brain** (for example, to evaluate trauma, drug intoxication, or extent of brain damage in comatose patients).

The EEG may also be used to **monitor blood flow** in the brain **during surgical procedures**.

Q1: What are electrodes?

An electrode is a solid electric conductor that carries electric current into non-metallic solids, or liquids, or gases, or plasmas, or vacuums. Electrodes are typically good electric conductors, but they need not be metals.

Source: [A century after the EEG was discovered, it remains a crucial tool for understanding the brain](#)

Source: <https://vajiramandravi.com/current-affairs/electroencephalography/>

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