

EEG Coherence

- electroencephalography
 - electrical activity in the brain
- electrical activity is measured in frequencies that look like small waves
 - Alpha Frequency (8-12Hz) cognition
 - o Beta Frequency (13-30Hz) motor

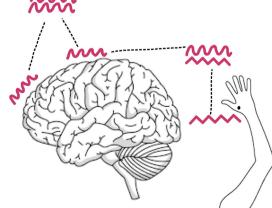
- measure of connectivity
- EEG + EMG connectivity between brain and muscle

Understanding Connections Between Brain and Muscle

We examined people who were young and did not have a stroke.

When they had more connection between brain areas for thinking and moving, they had less connection between brain and muscles.

This provides us with a comparison for what happens after a person has a stroke, when cognition may be affected.



Cognition

- thinking, learning, memory, and attention
- these skills are important for movement



Flectrodes

- small microphones that show electrical activity on computers
- not painful



- electromyography
 - o electrical activity in muscles