

Psychophysiological measurement of brain activity.

SCALP ENCELEPHALOGRAPHY

The EEG is a ^{measure of the} ~~recorded~~ gross electrical activity. It is recorded through \approx large electrodes by a device called electroencephalograph. The technique is called electroencephalography.

Somatic Nervous System.

Muscle Tension

Each muscle is composed of million thread like muscle fibres.

Each muscle fibre contracts in an all or none fashion when activated by the neuron.

Movement results when a large number of muscles contract.

Electromyography is used to measure the muscle tension. The graph is called electromyograph.

2 electrodes are taped over the surface of the skin over the muscle of interest.

Eye movement - Recording of eye movement is done by electrooculography and record is called electrooculogram

It is the steady potential difference b/w the front (+) and back (-) of the eyeball.

Done by placing 2 electrodes on each side to measure horizontal movements and 2 electrodes placed above & below the eye to measure vertical movements.

Autonomic Nervous System

Skin conduction emotional thought & experience are associated with the increases in the ability in the skin to conduct electricity

Done by 2 ways Skin ^{measure level} conductance ^{associated toward particular situation} level and skin conductance response ↳ transient changes in skin conduction that are associated with discrete situations

Sweat glands are distributed all over the body surface - axilla, hands, feet forehead are particular to emotional response.

relationship between
anions & cardiovascular
activities. language
presence in our chicken
white in feet, chicken

Cardiovascular - activity

3 different measures of CA
are frequently employed.

① Heart rate - electrical signals associated with heart rate can be recorded by electrodes placed on the chest. The recording called electrocardiogram (ECG)

The average heart rate of adult person is 70 beats per minute

② Blood pressure. The periods of heart contraction (peak pressure) and period of relaxation (minimum pressure)
 systolic diastolic

- Expressed as ratio of systolic over diastolic blood pressure in millimetres of mercury (mmHg)

- The normal BP of resting person is 130/70 mmHg.

A chronic BP is 140/90
" Hypertension

Sphygmomanometre BP machine

Blood volume .

Changes of blood volume in particular parts of body is due to psychological events .

Plithysmography is the technique to measure blood volume .

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classmate