

The invention relates to the psychoneurology and may be used for diagnostics of brain dysfunctions after ionizing radiation influence. The method for diagnostics of brain functional state under the ionizing radiation influence consists in the research of brain's electric activity. The calendar age in years, duration of irradiation in months, delta-range's spectral power of brain electric activity, H400 component's latent period of somatosensory evoked potentials, H300 component's amplitude of somatosensory evoked potentials and integral index of psychical deviation are additionally determined for a patient.