

PARTICULARITIES IN ELECTROENCEPHALOGRAPHY, EEG ASPECT OF VOLUNTARY MOVEMENT PROCESS IN A PATIENT CASE REPORT

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A 45 year old man, right handed, is suffering from a previous Lance-Adam's syndrome. The initial and recent MRI is normal. The clinical examination is normal. The patient is addressed for an EEG control, which the singularity consists of a fast rhythm on the left channels, C3, F3 and channel Cz of 35 Hz frequency, followed by the same latency of 1400 milliseconds. Finally it ends at an artifact of a basic physiological spontaneous movement, represented by lifting the right hand, in order to touch the nose. All possibilities of other artifacts are excluded. Those EEG manifestations are obviously related to the upper limb conception movement. The results support the hypothesis that this fast rhythm of 35 Hz could be the translation of a cognitive movement conception process, including certainly frontal and central areas. So the latency of 1400 milliseconds could correspond to an associative cortex travel time, between conceptual and executive motor areas, for this case.