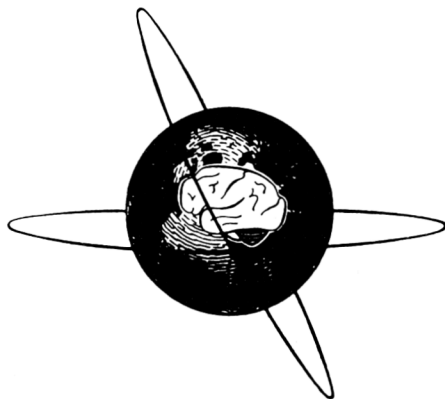


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124. Neurophysiological findings in a patient with adrenomyeloneuropathy. — K.-H. Krause, K. Brosi, M. Rittmann and K. Scheglmann (Heidelberg)

A 31-year-old male with typical biochemical signs of adrenoleukodystrophy showed minor symptoms of an involvement of the central and peripheral nervous system in combination with adrenocortical gland insufficiency. The nerve conduction velocities were markedly reduced (right median nerve motor 37, sensory 45, right peroneal and tibial nerves 28 m/sec). Electromyographically discrete signs of chronic neurogenic involvement were found in the right anterior tibial and short extensor digitalis muscle. Whereas the first investigation of VEPs in October 1983 revealed no certain pathological signs, half a year later the latencies were prolonged, (P_{100} left 125.6, right 126.8 msec). In the brain-stem acoustic evoked potentials peak II was not clearly identified; the latencies were prolonged from peak III (III left 4.64, right 4.42, IV left 6.16, right 5.96, V left 6.96, right 6.54 msec), and also the interpeak latencies I–III (left 3.10, right 3.04 msec) and III–V on the left side (2.32 msec). Compared to results in the literature the patient showed typical findings of the sensory evoked potentials, whereas such a marked lowering of NCV — especially when considering the minor clinical symptoms — seems to be remarkable.