

Electrophysiological relationships between the caudate nucleus and the pulvinar-lateralis posterior complex

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In 40 unanaesthetized, curarized cats, the reciprocal electrophysiological relationship between the caudate nucleus and the Pul-LP complex was analyzed. With pulses 1/sec applied to the pulvinar nucleus, evoked responses were elicited in the caudate nucleus in 28.6% of the stimulations. Most of the responses were found at the frontal planes A 13.5 - A 14, and in the dorsal area, being their amplitude less than 200 μ V and with a mean value for the latency clotted 9.7 msec. When the LP nucleus was stimulated, the responses evoked in the caudate nucleus were similar to those described for pulvinar, excepting an inferior mean value (3.8 msec) for the latency. With pulses 10/sec recruiting responses could be recorded in the caudate nucleus in 23.2% of the stimulations performed in the pulvinar, and the areas for recruiting responses do not always coincided with those found for 1/sec constructed, Similar results were observed when the LP nucleus was stimulated. When the caudate nucleus was