Visual evoked potentials in cortical auditory and anterior ectosylvian areas of cat Guiloff, Roberto D.

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Depth recording of photic evoked potentials of auditory and ectosylvian posterosuperior cortex of cat do not show reversal of polarity. Strychnine enhances only the auditory potentials. KCI has a depressor action on auditory responses, but acts slower and irregularly on visual potentials. Visual auditory and somatic responses in AEA (anterior ectosylvian association area) show reversal of polarity. KCI and strychnine depress and enhance, respectively, all these responses in a similar way. Interaction studies show significant differences between AEA and auditory, posterosuperior ectosylvian and second somatic areas. It is suggested that photic responses of the auditory areas are not generated in this cortex and that AEA is a small polysensory field, probably a medial and caudal expansion of the insulo-orbital field, with special relevance to auditory-visual integrative processes. © 1971.