

# Histological studies of the monkey neurovirulence of group B arboviruses. II. Selection of indicator centers.

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## Histological studies of the monkey neurovirulence of group B arboviruses. II. Selection of indicator centers.

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Journal article : [American Journal of Epidemiology](#) 1966 Vol.84 No.3 pp.524-40

Abstract : In the assessment of neuropathological changes in primates occurring after the intracerebral inoculation of neurovirulent viruses into the central nervous system, it would be valuable to know which areas are consistently affected by these viruses. 72 monkeys were inoculated intracerebrally with 1 of 5 group B arboviruses (Japanese encephalitis, Langkat, West Nile, yellow fever, dengue 4) or with poliovirus 3.

diluent. Animals were killed after 1 month and about 55 different tracts and each brain were examined blindly. The following areas were found to be co affected by these viruses and were thus designated "indicator centers": Th striate nuclei, the thalamus and the substantia nigra in the cerebral hemisp cerebral cortex; the reticular formation in the brainstem; and the anterior anterolateral white matter in the cord. By the examination of these areas al and 5 interval sections per block being used), the time required to assess 1 reduced from 5 hours to about 1 hour without a corresponding decrease in [Full details are given in this careful and valuable paper and are set out in 4 tables.] (For Part I see *Am. J. Epidem.*, 1965, v. 82, 359.) *R. N. P. Sutton.*

ISSN : [0002-9262](#)

Record Number : 19672704524

Language of text : [not specified](#)

Language of summary : [not specified](#)

Indexing terms for this abstract:

Organism descriptor(s) : Human enterovirus C, *Macaca mulatta*, man, monkeys, F viruses, yellow fever virus

Descriptor(s) : animal models, arboviruses, brain, central nervous system, dengue models, encephalitis, experimental infection, histology, human diseases, Japanese nervous system, nuclei, yellow fever

Identifier(s) : arthropod-borne viruses, cell nuclei, cerebrum, CNS, encephalomyel experimental transmission, human poliovirus, Misr, Poliovirus

Geographical Location(s) : Egypt

Broader term(s) : *Macaca*, Cercopithecidae, primates, mammals, vertebrates, Ch eukaryotes, *Homo*, Hominidae, Flavivirus, Flaviviridae, positive-sense ssRNA Virus Viruses, RNA Viruses, viruses, Developing Countries, Mediterranean Region, Midd Africa, Africa, Enterovirus, Picornaviridae, Picornavirales

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