

An immunohistochemical study on Alzheimer change and neuronal death

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2000 Fiscal Year Final Research Report Summary

An immunohistochemical study on Alzheimer change and neuronal death

Research Project

Project/Area Number

11670937

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

Psychiatric science

Research Institution

Kanazawa University

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Project Period (FY)

1999 - 2000

Keywords

Alzheimer's disease / Senile plaques / Neurofibrillary tangles / Apoptosis / White matter / Astrocytes / Oligodendrocytes

Research Abstract

In the present study, we studied the relationship between neuronal death and occurrence of senile plaques and neurofibrillary changes. Apoptotic cells were observed in the endothelial cell of small vessels with angiopathic change and neurons and glial cells around the classic senile plaques. As for neurofibrillary changes and apoptosis, the intensity of AT8 tau immunoreactivity and the number of apoptotic cells were significantly correlated, in particular, the number of apoptotic cells significantly correlated with that of extracellular neurofibrillary tangles labeled with C4d and CD68. Immunoreactivity of C4d and amyloid P appeared to develop after apoptotic changes. Triplet labeling of Gallyas silver impregnation/ AT8 tau labeling/. TUNEL showed that occurrence of silver-stained neurofibrillary tangles in the AT8tau-positive cytoplasm contributed to the development of TUNEL-positive nuclei. Senile plaques with amyloid fibrils contained apoptotic cells around them, while the diffuse ... More

Research Products (4 results)

All Other

All Publications

- [Publications] 中野博之,小林克治,宮津律次 他: "うつ病性昏迷で初発し側頭葉白質に病変を認めたアルツハイマー病の一部検例"臨床精神医学. 29. 657-662 (2000) ▼
- [Publications] Kobayashi K,Shimodak et al: "Report of three cases of Alzheimer's disease with focal motor symptoms"World Journal of Biological Psychiatry. 1. 164-169 (2000) ▼
- [Publications] Kobayashi K, Shimoda K, Higashima M, Nakano H, Miyazu K, Hayashi M, Tabata O, Koshino Y.: "Report of three cases of Alzheimer's disease with focal motor symptoms : clinical correlates of neuroimaging findings."World Journal of Biological Psychiatry. 1. 164-169 (2000) ▼
- [Publications] Nakano H, Kobayashi K, Miyazu K, Oba Y, Hayashi M, Muramori F, Tochimoto S, Nakamura I, Nakanishi I, Koshino Y.: "An autopsied case of Alzheimer's disease with temporal white matter lesion and initial depressive stupor."Clinical Psychiatry. 29(6). 657-662 (2000) ▼

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