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Histopathological Feature of the Tumor of Central Nervous System at Airlangga University School of Medicine, Dr Soetomo Hospital, Surabaya, in 2001-2003

Abstract

The tumors of central nervous system are rare but so variety. To establish reasonable histopathological diagnosis of tumor of central nervous system (CNS), a pathologist needs data base as a guideline. There is sex predilection in some CNS tumors. The aim of these study was to create data base about frequency and distribution of tumors of central nervous system which will be beneficial as guideline and to analyze correlation between sex predilection and histopathological diagnosis of CNS tumor. A number of 79 cases of CNS tumor have been collected and were stained with Hematoxylin Eosin. We found that the histopathological diagnosis consistent with the WHO classification 1999. The three most frequent tumors were meningioma, astrocytic tumor and schwannoma. There were 32 cases of meningioma with the ratio of men and women 1 : 7, 18 cases of astrocytic tumor with the ratio of men and women 1.25 : 1 and 13 cases of schwannoma with the ratio of men and women 2.25 : 1. In this study, we found one difficult case. From this study, it was concluded that meningioma is the most frequent tumor of central nervous system at Airlangga University School of Medicine, Dr Soetomo Hospital, between 2001 and 2003. There was different frequency of astrocytic tumor, meningioma and schwannoma between men and women. Progesterone perhaps involved in the regulation of growth and development of some tumors of central nervous system. To obtain an appropriate histopathological diagnosis of a difficult case, we need additional examination, such as immunohistochemistry.

Keyword : tumor, of, the, central, nervous, system, distribution, frequency

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