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Abstract: Review is made on WILMS tumor in Japan, especially on sex, age, histology, oncology, symptomatology and diagnosis and treatment.

Keywords: review, clinical features, WILMS tumor, cases in Japan

日本における WILMS 腫瘍

高橋 隆之

Journal of the Medical Society of Toho University, 1975, 23, 373-385

要約: 日本における WILMS 腫瘍の性、年齢、組織学、腫瘍学、症状学、診断法、治療法について検討する。

キーワード: 総論、臨床的特徴、WILMS 腫瘍、日本の症例

WILMS tumor (WT) or nephroblastoma is an embryonic renal tumor which occurs frequently in infancy and childhood. WT is important not only because it is one of the typical malignant solid tumors, but also because the remarkable therapeutic results have been reported.

In addition to the above mentioned clinical facts, recent studies of WT revealed some interesting findings in the field of etiology and pathogenesis.

AGE, SEX

WT occupies about 4-5% among total childhood cancer in Japan (TABLE 1). It is one of the typical malignant solid tumors of children in parallel with neuroblastoma and liver cancer.

Approximately 50% of WT occur before the age of 3 years. It is noted very rarely even in the neonatal period. The unique age incidence of WT suggests the prenatal factor in the etiology of this neoplasm like other embry-

onal tumor such as neuroblastoma, rhabdomyosarcoma and hepatoblastoma.

However, it is not certain that WT appears in older age group also. In fact, observed 4 cases of WT appeared in more than 14 years of age among 122 cases of this tumor. The oldest case was 22 years in our series. It is very difficult to explain why embryonal cancer such as WT occurs at older age. WT in older age group is different from that of the younger infants though the histology of these neoplasms are similar. It is called as the WT started to grow up many years after birth by unknown congenital events.

WT appears almost equally in both sexes. In children's cancer registration of Japan, 126 cases appeared in male and 140 cases in female (TABLE 2).

CONCOMITANT DISEASE

The simultaneous occurrence of WT in a patient with aniridia or with hemihypertrophy

Journal of The Medical Society of Toho University, Jan. 17, 1975, 23(4):373-385
ISSN 0022-2188
Printed in Japan

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Received Nov. 15, 1974