

무균성 수막염

Aseptic Meningitis

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Abstract

Aseptic meningitis, an acute inflammatory process of the meninges, is characterized by pleocytosis and absence of microorganisms on Gram stain and routine bacterial culture of CSF, and commonly occurs in children. Although aseptic meningitis occurs sporadically all the year round, in areas of temperate climates as in Korea, most cases occur in summer and fall, and the large scale epidemics draw a great deal of social concerns. Among the various etiologies, enteroviruses are the causative agents in about 85% of all cases. Although the clinical course is self-limited in most instances, substantial morbidity and mortality may be observed in some cases. In dealing with the patients of suggestive aseptic meningitis, it is important to rule out the diseases that are fatal but treatable.

Keywords : Aseptic meningitis; Enterovirus;
Viral meningitis

: ; ;

1925

, 가
,
lymphocytic choriomeningitis(LCM)
가 1940 (1).

, 가 가
· 1
, 가
가
·
·
, 가 가
가 (2).

가 ,
 .

가

85% (3).

70

echovirus 4, 6, 9, 11,
 30, coxsackievirus A9, A16, B2 ~ B5 enterovirus
 70, 71 , coxsackievirus
 B5, echovirus 4, 6, 9, 11 (4, 5).
 1989

echo-
 virus 3, 4, 6, 7, 9, 25, 30, coxsackievirus A24, cox-
 sackievirus B1 B6, enterovirus 71, enterovirus
 , 1993 1996 echovirus 9
 가 (6 ~ 10).

가 .

arbovirus herpesvirus가

. Arbovirus

가

. Herpes

simples virus

herpes simplex

virus 2

. Varicella-

zoster virus

. cytomegalovirus,

adenovirus, 6 , human im-
 mundeficiency virus, Epstein - Barr virus, influenza
 A B virus, parainfluenza virus, parvovirus B19,
 rotavirus, coronavirus
 (11, 12).

가 가

가

relapsing fever,
 , ,
 가 ,

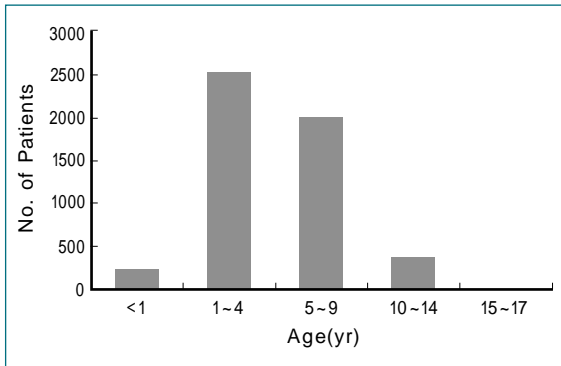
.
Cryptococcus neoformans , *Mycoplasma*
pneumoniae, *Mycoplasma hominis*, *Ureaplasma*
urealyticum, *Chlamydia pneumoniae*, *Angilo-*
strongylus cantonensis
 . trimethoprim -
 sulfamethoxazole,
 .

가

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.

가 .



1. Age Distribution of Patients with Aseptic Meningitis in 1993 in Korea(6)

1. Symptoms and Signs in Patients with Aseptic Meningitis in 1993 in Korea(6)

Symptoms and Signs	% of patients
Symptoms	
headache	84.8
abdominal pain	38.2
poor appetite	32.0
irritability	29.5
diarrhea	9.8
seizure	2.0
myalgia	1.7
loss of consciousness	1.2
arthralgia	0.9
chest pain	0.7
Signs	
fever	99.5
local neurologic sign	11.0
neck stiffness	8.4
rash (maculopapular)	3.4
oral enanthem	3.3
hepatomegaly	2.4
conjunctival hemorrhage	1.6
rash (petechial)	1.4
splenomegaly	1.2
motor weakness	1.0
fontanelle bulging	0.4
paralysis	0.2
ataxia	0.2

85% 가

가

1993

가 가

1993 1 4

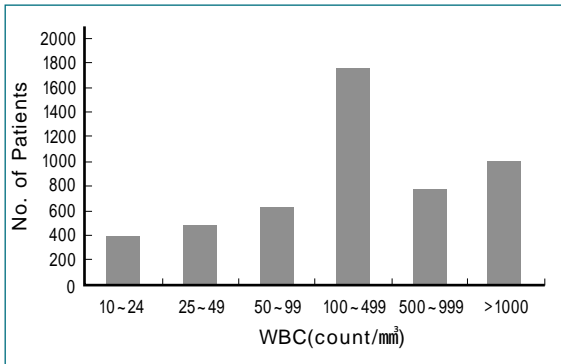
9 (1).

가

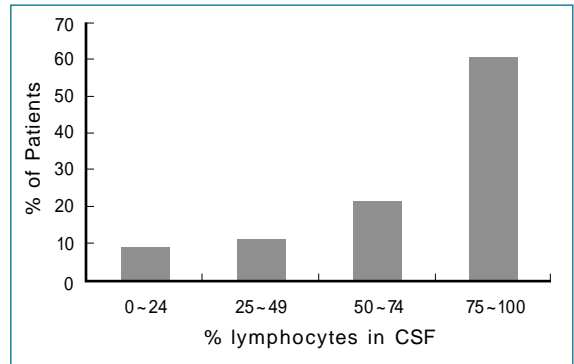
4~6 가 ,

1~2

(1).



2. White Blood Cell Counts in CSF in Patients with Aseptic Meningitis in 1993 in Korea(6)



3. Proportion of Lymphocytes in CSF in Patients with Aseptic Meningitis in 1993 in Korea(6)

(38
40)

echovirus 9 30 50%
(1).

가
가

가

가 (13).

가

(retrobulbal)

1/5

9% syndrome of inappropriate
secretion of antidiuretic hormone(SIADH)가

가

2~3

, Brudzinski sing, Kernig sign

herpangina, , , , CRP lactate) .

가 tumor necrosis factor - alpha .

가 mm³ (2),

가 pellicle .

가 8 48 가 (3). 가 (1).

가 가 ()

acid - fast stain , 가

가 가

가 가

가 가

가 , Reye aspirin acetaminophen SIADH 가 가

가 10 21 arbovirus,

LCM, leptospira, borrelia, rickettsia, mycoplasma, toxoplasma 가 (14).

가 aspirin acetaminophen 가 가

(, , 가

가

가

가

가

가

2001

가

가

Urabe Am 9

2000 2

가가

arbovirus



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