

가 ANOVA Pearson Chi - square test 0.05

6-9)

가

347

16 (4.6%), 23 (6.6%), 308
(88.8%), 42.1

1994 6 2003 2 51.1 49.0

347 41.1

3 가 (), (), () p=0.002, 179 :
(), () p=0.026 168 51.6% : 48.4% , 7 : 9,
() , 14 : 9, 158 : 150 가

가

500, 6.4 , 6.9 , 5.7

1000, 2000 3000 Hz 가 , 5.8
10 dB 5 (31.3%),
4 (17.4%), 87 (28.2%)

9
(56.3%), 17 (73.9%), 151 (49.0%)
(p=0.021)(Table 1).

Herpes zoster virus(HZV), Cytomegalovirus(CMV) IgM, IgG 14 60.9% ,
3 (13.0%), Behcet
2 (8.7%), , ,
lipid panel(total cholesterol, HDL, LDL) 1 (4.3%)가

63.4 dB, 72.1
dB, 75.4 dB 가
55.6
dB, 62.5 dB, 52.0 dB
가 , 가
7.8 dB, 9.6 dB, 23.4
dB
(p=0.001, p=0.006)
가 (Table 2).
10 dB
10 (62.5%), 5 (21.7%), 174
(56.5%) ,

Solondo®
(Prednisolone, ()) 60 mg/d 5 , 40 mg/d
2 , 20 mg/d 2 , 10 mg/d 1 10
protocol 가 he-
parin(10,000 unit/d 9) Tanamin®(Ginkgo biloba
Ext., (), 35 mg/d 10) ,
Vacrax®(Acyclovir, (), 250 mg/d 10) ,
Dichlozid®(Hydrochlorothiazide, (), 25 mg/d
10) , Tanamin®(80 mg/d 15)

Table 1. Clinical features of the patients with sudden sensorineural hearing loss (SSNHL)

	Group I	Group II	Group III	Total	
Number of patients	16	23	308	347	
Age (years)	51.1*	49.0*	41.1	42.1	
Sex (M : F)	7 : 9	14 : 9	158 : 150	179 : 168	
Duration between onset and treatment (days)	6.4	6.9	5.7	5.8	
Associated symptoms (number of patients (%))	Vertigo	5 (31.3%)	4 (17.4%)	87 (28.2%)	96 (27.7%)
	Aural fullness	3 (18.8%)	2 (8.7%)	40 (13.0%)	45 (13.0%)
	Tinnitus	9 (56.3%)	17* (73.9%)	151 (49.0%)	177 (51.0%)

(*p<0.05 compared with group III, ANOVA), Group I : simultaneous bilateral SSNHL, Group II : sequential bilateral SSNHL, Group III : unilateral SSNHL, M : male, F : female

Table 2. Hearing gain of the patients with sudden sensorineural hearing loss (SSNHL)

	Group I	Group II	Group III
Initial PTA (dB)	63.4*	72.1	75.4
Final PTA (dB)	55.6	62.5	52.0
Hearing gain (dB)	7.8*	9.6*	23.4

(*p<0.05 compared with group III, ANOVA), Group I : simultaneous bilateral SSNHL, Group II : sequential bilateral SSNHL, Group III : unilateral SSNHL, PTA : pure tone averages (0.5, 1, 2, 3 kHz)

Table 3. Hearing recovery rate over than 10 dB in PTA between groups according to patients and ears

	Group I	Group II	Group III
Patients	10/16 (62.5%)	5/23* (21.7%)	174/308 (56.5%)
Ears	12/32* (37.5%)	5/23* (21.7%)	174/308 (56.5%)

(*p<0.05 compared with group III, Pearson chi-test), Group I : simultaneous bilateral SSNHL, Group II : sequential bilateral SSNHL, Group III : unilateral SSNHL

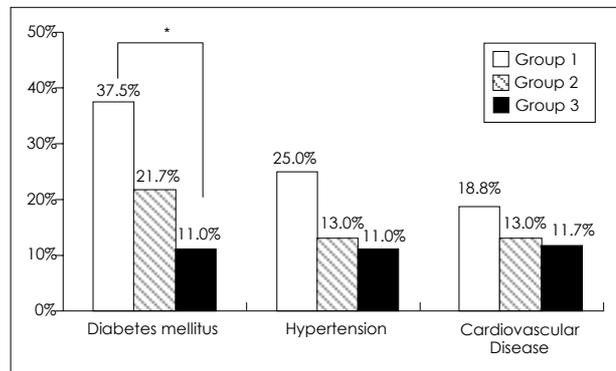


Fig. 1. Comparison of associated diseases with sudden sensorineural hearing loss (SSNHL) between groups (*p<0.05, Pearson chi-test). Group I : simultaneous bilateral SSNHL, Group II : sequential bilateral SSNHL, Group III : unilateral SSNHL.

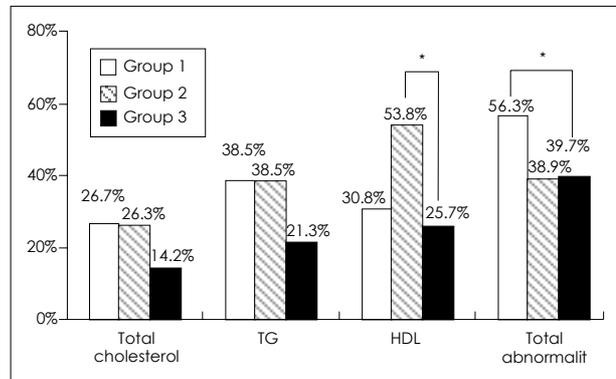


Fig. 2. Comparison of abnormal results of lipid panel in the patients with sudden sensorineural hearing loss (SSNHL) between groups (*p<0.05, Pearson chi-test). TG : triglyceride, HDL : high density lipid, Total abnormality ; abnormality more than one item in the lipid panel. Group I : simultaneous bilateral SSNHL, Group II : sequential bilateral SSNHL, Group III : unilateral SSNHL.

32

12 (37.5%)

(p=0.036)(Table 3).

2

가

6 (37.5%),

5 (21.7%),

34 (11.0%)

(p=0.002).

25.0%, 18.8%

19 5 (26.3%), 239

34 (14.2%) 가

25.0% , triglyceride 38.5%, 38.5%,

(Fig. 1).

lipid panel total cholesterol 21.3% 가 HDL 30.8%, 53.8%, 25.7%

(stria vascularis)¹⁹⁾

lipid panel
triglyceride
가

가 HDL,
가

(histamine, papaverine, verapamil, carbon dioxide)
(dextran, papaverine)²⁰⁾

(Fig. 2)

가

32~65%

가

가

가 51.1
(Table 1)

가⁹⁾

(Fig. 3).

75.4 dB

63.4 dB
(Table 2)

가

가¹⁴⁾

(Table 1).

가

가⁶⁾⁷⁾

(Table 3),

() 16 62.5% 10
() 56.5%

37.5%

가

가

21.7%²⁾

가

4.6%

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