

양성 돌발성 두위 현훈 환자에서
 DHI(Dizziness Handicap Inventory)를 통한
 주관적 어지럼의 이해

가

박시내 · 조정해 · 박경호 · 채세용 · 남인철 · 박준욱 · 김명원 · 여상원

Understanding of Subjective Dizziness Using Dizziness Handicap Inventory
 in the Patients with Benign Paroxysmal Positional Vertigo

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-ABSTRACT-

Background and Objectives : The purposes of this study is to understand the self-perceived handicapping effect and the changes of dizziness after canalith repositioning (CRP) maneuver with mastoid percussion in the patients with benign paroxysmal positional vertigo (BPPV) using dizziness handicap inventory (DHI).
Materials and Method : A total of 83 patients with BPPV visiting the dizziness clinic of Kangnam St. Mary's Hospital from August, 2002 to July, 2003, were included in this study. DHI questionnaires, checked before and one week after CRP maneuver, were analyzed according to the type of BPPV. **Result** : The DHI scales of patients with posterior semicircular canal BPPV was 35.2 ± 26.6 , 37.5 ± 31.3 with lateral semicircular canal BPPV and 70.0 ± 36.8 with anterior canal BPPV. Especially, Most of the patients had higher scores in physical subscale than other subscales in DHI. Comparing the DHI scale change of before and after CRP maneuver, it made significant decrease in DHI scale after CRP maneuver from 37.1 ± 27.0 to 16.3 ± 17.0 . Also all subscales of DHI, in other words, physical, functional, emotional factors, were decreased after CRP maneuver ($p < 0.01$).
Conclusion : In the patients with BPPV, self-perceived handicapping effects were mainly physical factors. DHI might be usefully applied to the patients with BPPV to understand their dizziness. (J Clinical Otolaryngol 2005;16:111-118)

KEY WORDS : Positional vertigo · Dizziness handicap inventory.

서 론

vertigo)

1912

(Benign paroxysmal positional

Barany가

, 1952

Dix

Hallpike

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가

1)

DHI 가
DHI

방 법

lith)

(cupulolith)

(cana-

Dizziness handicap inventroy

2)

(canalithiasis)

(common crus)

1

DHI

(cupulolithiasis)

DHI (Table 1) “ ”
“ ” “ ” 4 , 2 , 0
0~100

가

Herdmann⁴⁾

Epley

ness handicap inventory(DHI)

Dizzi-

가

가
Barbecue

25가

Reversed Epley

3)

DHI

4)5)

대상 및 방법

1

Dix - Hallpike

연구대상

2002 8 2003 7 가

Dix - Hallpike

1

(Roll test)

(positioning test)

가

83

DHI(Dizziness Handicap Inventory)

Table 1. Korean version of Dizziness handicap inventory

가	가	가	가	가	가	가		
P1)		?		1)	() 2)	() 3)	()	
E2)			?	1)	() 2)	() 3)	()	
F3)	가		?	1)	() 2)	() 3)	()	
P4)				?	1)	() 2)	() 3)	()
F5)			?	1)	() 2)	() 3)	()	
F6)								
		?		1)	() 2)	() 3)	()	
F7)			?	1)	() 2)	() 3)	()	
P8)				가				
		?		1)	() 2)	() 3)	()	
E9)		가						
	?			1)	() 2)	() 3)	()	
E10)								
	?			1)	() 2)	() 3)	()	
P11)			?	1)	() 2)	() 3)	()	
F12)	가		?	1)	() 2)	() 3)	()	
P13)			?	1)	() 2)	() 3)	()	
F14)								
	?			1)	() 2)	() 3)	()	
E15)								
			?	1)	() 2)	() 3)	()	
F16)	가	가		?	1)	() 2)	() 3)	()
P17)	가			?	1)	() 2)	() 3)	()
E18)			?	1)	() 2)	() 3)	()	
F19)								
	?			1)	() 2)	() 3)	()	
E20)			?	1)	() 2)	() 3)	()	
E21)			?	1)	() 2)	() 3)	()	
E22)	가							
	?			1)	() 2)	() 3)	()	
E23)		?		1)	() 2)	() 3)	()	
F24)				?	1)	() 2)	() 3)	()
P25)		?		1)	() 2)	() 3)	()	

통계적 분석

SPSS(Version 11.5)

t - test

52.0 ± 13.2

11

79

p 0.05

20 : 63

6

, 89

결 과

49 : 40

89

양성 돌발성 두위 현훈 환자의 임상 양상

55 (61.8%)

83

가 , 23 (25.8%)
 가
 가 89 9 (10.7%)
 , 2 (2.3%)
 .
 83 7 (8.4%)
 가
 83 61 (73.5%)
 , 18 (21.7%)
 , 4 (4.8%)
 가 26.5%
 , 2 (2.3%)
 , 4 (4.8%)
 4 (4.8%)
 10 (12.0%)
 .
 7 (8.4%)
 18
 5 (27.8%)
 20%
 , 4
 (Table 2).
 Epley
 1.2±0.5 , 가
 1.5±0.8 . 1
 4 (4.8%)
 95.2%
 . 4 ±11.+7
 1 가
 , 가
 9

Table 2. Clinical characteristics of the patients with benign paroxysmal positional vertigo (n=83)

Age	Mean ±SD	52.0 ± 13.2 y
	Range	11 - 79 y
Sex		
	Male : Female	20 : 63
Number of attacks		
	1st : 2nd : 3rd	61 : 18 : 4
Associated inner ear disorders		
	Vestibular neuritis	2 (2.3%)
	Meniere's disease	2 (2.3%)
	Recurrent vestibulopathy	2 (2.3%)
	Sudden deaf	4 (4.8%)
Number of affected SCC		
	Single : multiple	77 : 6
Location of affected SCC (n=89)		
	Right : Left	40 : 49
	Posterior SCC canalith	55 (61.8%)
	Lateral SCC canalith	23 (25.8%)
	Lateral SCC cupulolith	9 (10.7%)
	Anterior SCC canalith	2 (2.3%)

SCC : semicircular canal

이환 반고리관에 따른 DHI상의 특성

83 DHI 55
 DHI
 (37) DHI
 35.2±26.6 , 가
 (12) 37.5±31.3 , 가
 (4) 30.5±15.4 ,
 (2) 70.0±36.8
 . DHI (physical), (emotional),
 (functional)
 가 12.3±7.3 , 9.8±10.5 , 14.0
 . DHI 25
 가
 5(F5), 11(P11), 13(P13), 1(P1),
 25(P25) 5 4 가
 (Fig. 1).

DHI(Dizziness Handicap Inventory)

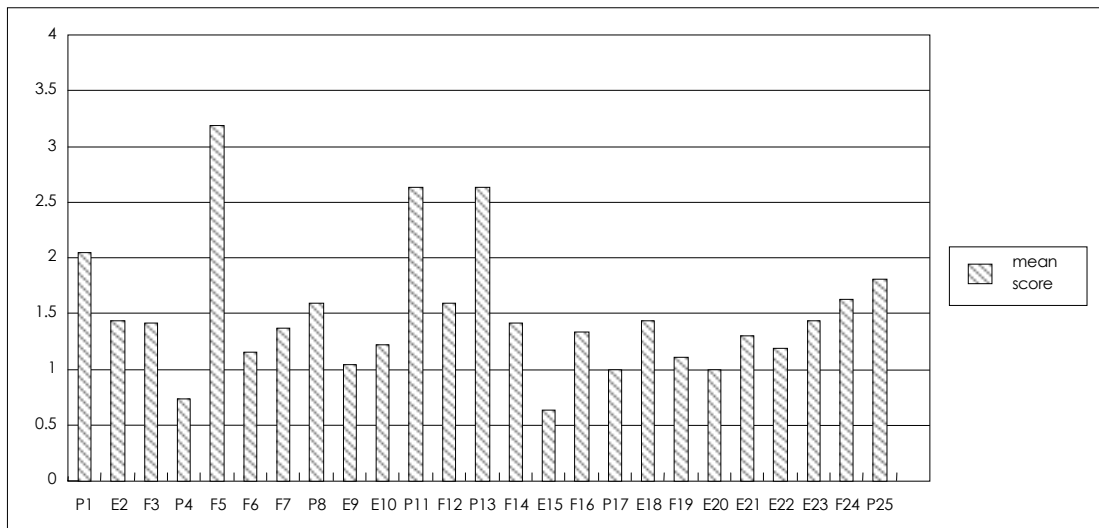


Fig. 1. Mean scores for each items of DHI in the patients with benign paroxysmal positional vertigo before treatment.

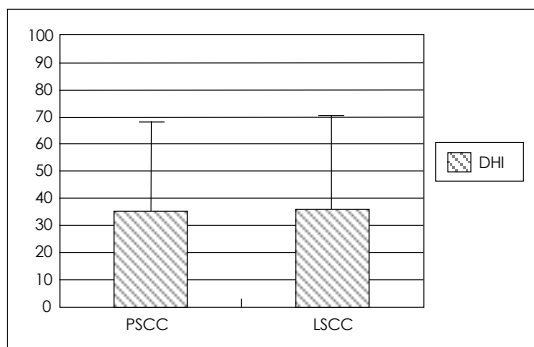


Fig. 2. Mean values of dizziness handicap inventory scores in the patients with posterior semicircular canal (PSCC) and lateral semicircular canal (LSCC) BPPV show no significant difference ($p>0.05$). DHI : dizziness handicap inventory.

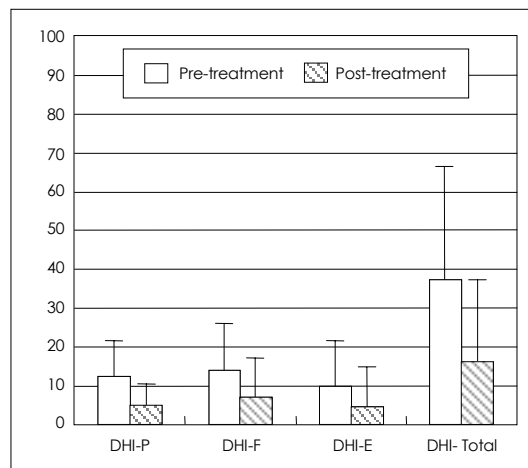


Fig. 3. Mean values of dizziness handicap inventory (DHI) scores at pre-treatment-Vs.- 1 week after treatment in the patients with benign paroxysmal positional vertigo show significant differences in physical, functional, emotional, physical factors and total scores ($p<0.01$). DHI-P : dizziness handicap inventory-physical, DHI-F : dizziness handicap inventory-functional, DHI-E : dizziness handicap inventory-emotional.

95%
(n=37)
가 (n=16) DHI
DHI
 35.2 ± 26.6 , 35.8 ± 27.8
($p>0.05$), , ,
($p>0.05$, DHI

유양부 타진을 병행한 이석 정복술 치료 전, 후 DHI의 변화

Fig. 2).

가
DHI
DHI

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