

## 유소아 난청의 조기 진단과 치료

전경명 · 고의경 · 이일우

### Early Diagnosis and Intensive Intervention for the Hearing-Impaired Infants and Children

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– ABSTRACT –

The goal of this thesis is to emphasize implementation of newborn hearing screening, audiologic assessment and early intervention. Newborn hearing screening alone will not assure early identification or positive outcomes for the development of communication and language. The development of communication and language requires input from a wide variety of professionals and consumers. Screening is only the first step in a comprehensive program, which must also include assessment and intervention. System development, equipment issues, follow-up procedures, data management and a tracking system are all pertinent factors. The goal of universal newborn hearing screening is to identify infants with hearing loss by 3 months of age and to provide appropriate intervention by 6 months of age then carry on their life with normal hearing persons. Early identification of hearing loss and rapid rehabilitative intervention are the two key elements that will give an infant the best chance to develop normal speech and allow the family members to make appropriate adjustments that will enhance communication in the home and social environment. The importance of early intervention with hearing aid fitting and the consideration of new technologies such as cochlear implantation are emphasized for the quality of life of hearing-impaired children. For the successful accomplishment of above goals, the multidisciplinary advisory board should be developed to help ensure input from relevant groups such as audiology, otolaryngology, pediatrics, nursing, hospital administration members of deaf community, educators of the deaf, parents of deaf children and social services. In conclusion, auditory screening test should be performed routinely for all newborn infants with the national compassionate insights and financial supports. (**J Clinical Otolaryngol 2001;12:193-202**)

**KEY WORDS** : Intensive intervention · Hearing-impaired infants · Auditory screening test.

서 언

(speech)

: , 602 - 739 17가 10

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- 가
- 3 : 가
- 6 :
- 9 : 신경방사선학적 검사
- 12 : 가 가
- 18 : Mondini
- 24 : 20
- 가,  
가
- (1) : 진찰의뢰
- (2) : ( ) (1) , (2) , (3) 가 (4)
- (3) : Treacher - Collins  
가 Waardenburg
- (4) :
- (5) : 30 가  
Treacher - Collins , Goldenhar , Treacher - Collins  
Hurler , Waardenburg
- (6) : Klippel -  
Feil
- 검사실 평가 , 가 가
- 가
- 1) - ,
- 2) - ,
- 3) 가
- 4) -
- 5) toxoplasma
- 6) 유소아 청력검사
- 7) - Hurler

가 6 2  
가 . 6  
(auditory brainstem response, ABR)  
(otoacoustic emission, OAE)가 가 (pass or refer) ”  
행동검사(Behavioral testing)  
(universal newborn hearing screening)  
3 6  
(reflex test)  
생리학적 검사(Physiologic testing) (buzz),  
(neometer)  
(auditory brainstem res - (1) Moro -  
ponse) (2) (auropalpebral reflex) -  
가 6  
가 , 18  
(3) - ,  
18 10  
I V V 가 가 , 3  
가 (conventional ABR) 가 , 5 6  
(automated ABR) (ALGO)  
가 , 2 3 “  
(pass or refer) ”  
가  
100% . 6  
(otoacoustic emission) 2.5  
(conditioned orientation reflex audi -  
ometry)  
가

1 2 , , 1  
 , ,  
 가 (cochlear implant)  
 가  
 3 , 6  
 (play audiometry) 가가  
 , 가 청력장애아의 가족상담  
 2.5 5 가 가 ,가  
 ( , 가 ) , 가 가  
 ( 가 highfive 가  
 ), 가  
 80 90 dB, 12 65 75 dB, 6 30 35 가족들의 감정  
 dB, 7 12 25 dB, 13 18 20 dB, 19 24  
 15 dB, 25 30 10 dB 18  
 (speech testing) , , , , 가  
 가 , , 가  
 3.5 , ,  
 .  
 임피던스 청력검사 가 상담기법  
 , 가 , 3가  
 , ,  
 1 가가 1) 가 ,  
 , ,  
 추적검사 2)  
 , ,  
 가 3)

상담에서의 주의 (integration, acceptance)  
 (stereotyping, 가 가  
 定型化) , 가 . 가  
 (transference, 轉移) ,  
 ,  
 (projection, 投寫) 가 . 가 .  
 가 가 가 ,  
 (implicit expectation) . 가  
 (over - helping) . 가  
 ,  
 (cheerleading) 가 , 가  
 . 가  
 , 가

부모들의 대처과정

보청기 착용

4가 가 .  
 보청기 조기착용의 필요성  
 (denial) , 가  
 , 2  
 가 ,  
 가 . ,  
 .  
 (resistance) , 6 12  
 .  
 가 가 ,  
 . 가 . 6  
 가 가  
 (affirmation) , 가 .  
 . 가 가  
 보청기의 선택  
 가 가 6  
 earmold .

가  
25 28  
dB  
20 dB  
가  
가 3 dB  
가 8 24% 가  
가  
적응과 금기  
10  
2 가  
가 75 80 dB  
(100 dB<PTA),  
( >60 dB,  
<40%), 2  
가  
2 2  
(acoustic feedback)  
가  
보청기 착용에 대한 반응  
0.2%  
가  
128 dB  
가  
가

### 인공와우

### 인공와우이식의 결과





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