

Evaluation of the Universal Newborn Hearing Screening and Intervention Program

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KEY WORDS

deaf, hard-of-hearing, early intervention, newborn hearing screening

ABBREVIATIONS

UNHSI—universal newborn hearing screening and intervention
EI—early intervention

AAP—American Academy of Pediatrics

The opinions expressed within this article are those of the authors and do not necessarily reflect those of the US Department of Health and Human Services or its components.

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abstract

During the last 20 years, the number of infants evaluated for permanent hearing loss at birth has increased dramatically with universal newborn hearing screening and intervention (UNHSI) programs operating in all US states and many territories. One of the most urgent challenges of UNHSI programs involves loss to follow-up among families whose infants screen positive for hearing loss. We surveyed 55 state and territorial UNHSI programs and conducted site visits with 8 state programs to evaluate progress in reaching program goals and to identify barriers to successful follow-up. We conclude that programs have made great strides in screening infants for hearing loss, but barriers to linking families of infants who do not pass the screening to further follow-up remain. We identified 4 areas in which there were barriers to follow-up (lack of service-system capacity, lack of provider knowledge, challenges to families in obtaining services, and information gaps), as well as successful strategies used by some states to address barriers within each of these areas. We also identified 5 key areas for future program improvements: (1) improving data systems to support surveillance and follow-up activities; (2) ensuring that all infants have a medical home; (3) building capacity beyond identified providers; (4) developing family support services; and (5) promoting the importance of early detection. *Pediatrics* 2010;126:S19–S27

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Michele Louise Slider



Universal Newborn Hearing Screening Universal Newborn Hearing Screening:

Universal Newborn Hearing Screening Lynn G. Spivak, 1998 Following the NIH recommendations of 1993 most U S hospitals now carry out Universal Newborn Hearing Screening This new book the first complete guide to this expanding field provides detailed information on staff training data collection quality control measures and other UNHS issues Practical and up to date the book is a must for all specialists concerned with the development and management of newborn screening programs The only book to combine specific management tips with the first hand experience of seasoned UNHS professionals this book should be in the collection of all audiologists physicians nurses and hospital administrators **Early**

Identification of Hearing Loss Karl White, Antonia Maxon, 1999 **Universal Newborn Hearing Screening :: Final Report**, 19?? *Universal Newborn Hearing Screening* Heidi D. Nelson, Christina Bougatsos, Peggy Nygren, U.S. Preventive Services Task Force, 2008 **OBJECTIVE** This review is an update for the U S Preventive Services Task Force USPSTF on universal newborn hearing screening UNHS to detect moderate to severe permanent bilateral congenital hearing loss The review focuses on 3 key questions regarding the effectiveness of universal screening and early interventions in improving language and other outcomes in childhood the effectiveness of universal screening in identifying infants with hearing loss and leading them to early interventions and adverse effects of screening and early interventions **METHODOLOGY** Literature searches of MEDLINE and Cochrane databases 2000 November 2007 were conducted to systematically identify articles addressing the 3 key questions published since the prior recommendation in 2001 Additional articles were obtained from reference lists of related reviews studies editorials reports websites and by consulting experts Articles were subjected to inclusion and exclusion criteria data from included studies were abstracted and studies were rated for quality with pre determined criteria Results were summarized descriptively in tables An outcomes table estimating the number needed to screen was determined using estimates from the most relevant studies **RESULTS** A good quality retrospective study of children with hearing loss indicates that those who had early versus late confirmation and those who had undergone UNHS versus none had better receptive language at age 8 years but not better expressive language or speech A good quality nonrandomized trial of a large birth cohort indicates that infants identified with hearing loss through UNHS have earlier referral diagnosis and treatment than those not screened These findings are corroborated by multiple descriptive studies of ages of referral diagnosis and treatment Universal newborn hearing screening programs have low false positive and referral rates and are generally well accepted and tolerated by parents of newborns Studies indicate that usual parental reactions to an initial non pass on a hearing screen include worry questioning and distress These negative emotions resolve for most parents when a diagnostic test is provided with a normal result Little information exists about the adverse effects of early interventions although cochlear implants are associated with higher risks for bacterial meningitis in young children **CONCLUSIONS** Children with hearing loss who had UNHS have better language outcomes at school age than those not

screened Infants identified with hearing loss through universal screening have significantly earlier referral diagnosis and treatment than those identified in other ways

Universal Newborn Hearing Screening: Systematic Review to Update the 2001 U. S. Preventive Services Task Force Recommendation U. S. Department of Health and Human Services, Agency for Healthcare Research and Quality, 2013-06-18 This systematic evidence review updates a prior review for the U S Preventive Services Task Force USPSTF on universal newborn hearing screening UNHS to detect moderate to severe permanent bilateral congenital hearing loss PCHL In 2001 based on results of a prior systematic evidence review the USPSTF concluded that the evidence was insufficient to recommend for or against routine screening of newborns for PCHL during the postpartum hospitalization I Recommendation The USPSTF provided additional specific conclusions about the evidence They determined that methods of screening using otoacoustic emissions OAEs and auditory brainstem response ABR are highly accurate for identifying PCHL in newborns and UNHS leads to earlier identification and treatment of infants with PCHL They found that evidence was inconclusive regarding whether earlier treatment resulting from newborn screening leads to clinically important improvement in speech and language skills at age 3 years and beyond because existing studies had design limitations The USPSTF considered that earlier identification and intervention may improve the quality of life during the first year of life and prevent regret by the family over delayed diagnosis of PCHL but limited data addressing these benefits existed They were not able to determine whether potential benefits outweighed the potential harms of false positive tests This update focuses on critical evidence gaps that were unresolved at the time of the 2001 recommendation and utilizes the format and methods of the prior systematic evidence review The Joint Committee on Infant Hearing JCIH comprised of representatives from audiology otolaryngology pediatrics education and state speech and hearing programs provides position statements and establishes practice standards for early identification intervention and follow up care for infants and young children with hearing loss According to the JCIH hearing screening should identify infants at risk for specifically defined hearing loss that interferes with development The targeted hearing loss for UNHS programs is permanent sensory or conductive hearing loss averaging 30 to 40 decibels dB or more in the frequency region important for speech recognition approximately 500 through 4000 Hertz Hz The focus of UNHS is on congenital as opposed to acquired or progressive hearing loss that may not be detected in the newborn period The term hearing impairment is commonly used outside the U S instead of hearing loss This systematic review updates the evidence from the prior 2001 USPSTF review for the following key questions 1 Among infants identified by UNHS who would not be identified by targeted screening does initiating treatment prior to age 6 months improve language and communication outcomes 2 Compared with targeted screening does UNHS increase the chance that treatment will be initiated by age 6 months for average risk infants For high risk infants 3 What are the adverse effects of UNHS and early treatment

Universal Newborn Hearing Screening in Illinois, 2003-2004 ,2006 **Universal Newborn Hearing Screening** Michele Louise Slider,2005 **Implementing**

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88 mm engine architecture 4 cylinders in line number of camshafts 2 balance shaft yes compression

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