

Universal Newborn Hearing Screening

Summary of Evidence

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EACH YEAR APPROXIMATELY 5000 infants are born in the United States with moderate-to-profound, bilateral permanent hearing loss (PHL). Estimates of the prevalence of moderate, severe, and profound congenital PHL among newborns range from 1 in 900 to 1 in 2500.¹⁻⁴ Moderate, severe, and profound congenital PHL is associated with delayed language, learning, and speech development.⁵⁻¹¹ This delay is measurable before age 3 years^{12,13} and has consequences throughout life. On average, deaf students graduate from high school with language and academic achievement levels below those of fourth-grade students with normal hearing.^{14,15}

Diagnosis and treatment are often delayed until ages 1 or 2 years in children with congenital PHL, particularly among those at low risk for PHL.¹⁶⁻²¹ Current theory holds that auditory stimuli during the first 6 months of life are critical to the development of speech and language skills.²²⁻²⁵ Advocates of universal newborn hearing screening (UNHS) believe that earlier application of available therapies, such as speech and language therapy, amplification, and family support, could reduce or eliminate the gap in language skills between deaf and hearing children.²⁶⁻²⁷ Screening also identifies infants who have mild and unilateral hearing impairment, but the consequences of delay are not well established

Context Each year, approximately 5000 infants are born in the United States with moderate-to-profound, bilateral permanent hearing loss (PHL). Universal newborn hearing screening (UNHS) has been proposed as a means to speed diagnosis and treatment and thereby improve language outcomes in these children.

Objectives To identify strengths, weaknesses, and gaps in the evidence supporting UNHS and to compare the additional benefits and harms of UNHS with those of selective screening of high-risk newborns.

Data Sources We searched the MEDLINE, CINAHL, and PsychINFO databases for relevant articles published from 1994 to August 2001, using terms for hearing disorders, infants or newborns, screening, and relevant treatments. We contacted experts and reviewed reference lists to identify additional articles, including those published before 1994.

Study Selection We included controlled and observational studies of (1) the accuracy, yield, and harms of screening using otoacoustic emissions (OAEs), auditory brainstem response (ABR), or both in the general newborn population and (2) the effects of screening or early identification and treatment on language outcomes. Of an original 340 articles identified, 19 articles, including 1 controlled trial, met these inclusion criteria.

Data Extraction Data on population, test performance, outcomes, and methodological quality were extracted by 2 authors (D.C.T., H.M.) using prespecified criteria developed by the US Preventive Services Task Force. We queried authors when information needed to assess study quality was missing.

Data Synthesis Good-quality studies show that from 2041 to 2794 low-risk and 86 to 208 high-risk newborns were screened to find 1 case of moderate-to-profound PHL. The best estimate of positive predictive value was 6.7%. Six percent to 15% of infants who are missed by the screening tests are subsequently diagnosed with bilateral PHL. In a trial of UNHS vs clinical screening at age 8 months, UNHS increased the proportion of infants with moderate-to-severe hearing loss diagnosed by age 10 months (57% vs 14%) but did not reduce the rate of diagnosis after age 18 months. No good-quality controlled study has compared UNHS with selective screening of high-risk newborns. In fair- to poor-quality cohort studies, intervention before age 6 months was associated with improved language and communication skills by ages 2 to 5 years. These studies had unclear criteria for selecting subjects, and none compared an inception cohort of low-risk newborns identified by screening with those identified in usual care, making it impossible to exclude selection bias as an explanation for the results. In a mathematical model based on the literature review, we estimated that extending screening to low-risk infants would detect 1 additional case before age 10 months for every 1441 low-risk infants screened, and result in treatment before 10 months of 1 additional case for every 2401 low-risk infants screened. With UNHS, 254 newborns would be referred for audiological evaluation because of false-positive second-stage screening test results vs 48 for selective screening.

Conclusions Modern screening tests for hearing impairment can improve identification of newborns with PHL, but the efficacy of UNHS to improve long-term language outcomes remains uncertain.

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Universal Newborn Hearing Screening Universal Newborn Hearing Screening

Karl White, Antonia Maxon



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

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